4201280-GB-Rev C

JACOBSEN®
A Textron Company

Parts & Maintenance Manual

Turfcat® with ROPS

69168 – Turfcat T628D, 2WD
69169 – Turfcat T628D, 4WD
69175 – Turfcat T628D, 2WD
69176 – Turfcat T628D, 4WD

⚠ WARNING

WARNING: If incorrectly used this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers and should read the entire manual before attempting to set up, operate, adjust or service the machine.

JACOBSEN®
A Textron Company

When Performance Matters.™

GB
United Kingdom

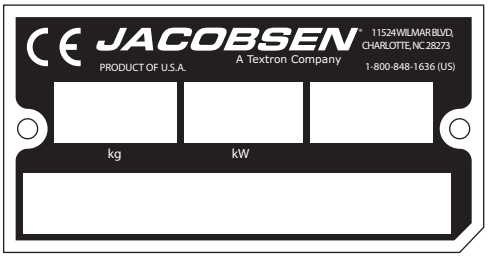
FOREWORD

This manual contains adjustment, maintenance, troubleshooting instructions and parts list for your new Jacobsen machine. This manual should be stored with the equipment for reference during operation.

Before you operate your machine, you and each operator you employ should read the manual carefully in its entirety. By following the safety, operating and maintenance instructions, you will prolong the life of your equipment and maintain its maximum efficiency.

If additional information is needed, contact your Jacobsen Dealer.

The serial plate is located on the right frame rail. Jacobsen recommends you record these numbers below for easy reference.



Suggested Stocking Guide

To Keep your Equipment fully operational and productive, Jacobsen suggests you maintain a stock of the more commonly used maintenance items. We have included part numbers for additional support materials and training aids.

To order any of the following material:

1. Write your full name and complete address on your order form.
2. Explain where and how to make shipment:
   - ❑ UPS
   - ❑ Regular Mail
   - ❑ Overnight
   - ❑ 2nd Day
3. Order by the quantity desired, the part number, and the description of the part.
4. Send or bring the order to your authorized Jacobsen Dealer.

Service Parts

Qty.	Part No.	Description	Qty.	Part No.	Description
	4177262	Engine Oil Filter		178025	Hydraulic Oil Filter
	2198147-01	Engine Air Filter			
	2721539-01	Engine Fuel Filter			
	5001182	Pre-Fuel Filter			

Service Support Material

Qty.	Part No.	Description
	4201281	Safety & Operation Manual
	4201280	Parts & Maintenance

Qty.	Part No.	Description
	4171722	Service Manual
	4191628	DVD, Operator Training

These are the original instructions verified by Jacobsen, A Textron Company.

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Proposition 65 Warning

This product contains or emits chemicals known to State of California to cause cancer and birth defects or other reproductive harm.

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1 SAFETY

1.1 OPERATING SAFETY

⚠ WARNING

EQUIPMENT OPERATED IMPROPERLY OR BY UNTRAINED PERSONNEL CAN BE DANGEROUS.
Familiarize yourself with the location and proper use of all controls. Inexperienced operators should receive instruction from someone familiar with the equipment before being allowed to operate the machine.

1. Safety is dependent upon the awareness, concern, and prudence of those who operate or service the equipment. Never allow minors to operate any equipment.
2. It is your responsibility to read this manual and all publications associated with this equipment (Safety & Operation Manual, Engine Manual, and attachments/ accessories instruction sheets). If the operator cannot read English it is the owner's responsibility to explain the material contained in this manual to them.
3. Learn the proper use of the machine, the location and purpose of all the controls and gauges before you operate the equipment. Working with unfamiliar equipment can lead to accidents.
4. Never allow anyone to operate or service the machine or its attachments without proper training and instructions, or while under the influence of alcohol or drugs.
5. Wear all the necessary protective clothing and personal safety devices to protect your head, eyes, ears, hands, and feet. Operate the machine only in day light or in good artificial light.
6. Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job. Only use accessories and attachments approved by Jacobsen.
7. Stay alert for holes in the terrain and other hidden hazards.
8. Inspect the area where the equipment will be used. Pick up all the debris you can find before operating. Beware of overhead obstructions (low tree limbs, electrical wires, etc.) and also underground obstacles (sprinklers, pipes, tree roots, etc.). Enter a new area cautiously. Stay alert for hidden hazards.
9. Never direct discharge of material toward bystanders, nor allow anyone near the machine while in operation. The owner/operator can prevent and is responsible for injuries inflicted to themselves, to bystanders, and damage to property.
10. Do not carry passengers. Keep bystanders and pets a safe distance away.
11. Never operate equipment that is not in perfect working order or is without decals, guards, shields, discharge deflectors, or other protective devices securely fastened in place.
12. Never disconnect or bypass any switch.
13. Do not change the engine governor setting or overspeed the engine.
14. Carbon monoxide in the exhaust fumes can be fatal when inhaled. Never operate the engine without proper ventilation or in an enclosed area.
15. Fuel is highly flammable, handle with care.
16. Keep the engine clean. Allow the engine to cool before storing and always remove the ignition key.
17. Disengage all drives and engage parking brake before starting the engine (motor). Start the engine only when sitting in operator's seat, never while standing beside the unit.
18. Equipment must comply with the latest federal, state, and local requirements when driven or transported on public roads. Watch out for traffic when crossing or operating on or near roads.
19. Local regulations may restrict the age of the operator.
20. Operate the machine up and down the face of slopes (vertically), not across the face (horizontally).
21. To prevent tipping or loss of control, do not start or stop suddenly on slopes. Reduce speed when making sharp turns. Use caution when changing directions.
22. Always use the seat belt when operating mowers equipped with a Roll Over Protective Structure (ROPS).

    Never use a seat belt when operating mowers without a ROPS.

    Accessory operator protective structures will continue to be offered for all equipment currently covered. This allows for the outfitting of any machines without previous ROPS installations or replacement of damaged structures.
23. Keep legs, arms, and body inside the seating compartment while the vehicle is in motion.
24. Disconnect batteries before performing any welding on this mower.

This machine is to be operated and maintained as specified in this manual and is intended for the professional maintenance of specialized turf grasses. It is not intended for use on rough terrain or long grasses.

1.2 IMPORTANT SAFETY NOTES

This safety alert symbol is used to alert you to potential hazards.

DANGER - Indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

WARNING - Indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

CAUTION - Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury and property damage. It may also be used to alert against unsafe practices.

NOTICE - Indicates a potentially hazardous situation which, if not avoided, **MAY** result in property damage. It may also be used to alert against unsafe practices.

For pictorial clarity, some illustrations in this manual may show shields, guards, or plates, open or removed. Under no circumstances should this equipment be operated without these devices securely fastened in place.

WARNING

The Interlock System on this mower prevents the mower from starting unless the PTO switch is OFF and traction pedal is in Neutral. The system will stop the engine if the operator leaves the seat without traction pedal in Neutral or setting the PTO switch OFF.

NEVER operate mower unless the Interlock System is working.

WARNING

1. Before leaving the operator's position for any reason:
   a. Return traction pedal to Neutral.
   b. Disengage all drives.
   c. Lower all implements to the ground.
   d. Engage parking brake.
   e. Stop engine and remove the ignition key.
2. Keep hands, feet, and clothing away from moving parts. Wait for all movement to stop before you clean, adjust, or service the machine.
3. Keep the area of operation clear of all bystanders and pets.
4. Never carry passengers, unless a seat is provided for them.
5. Never operate mowing equipment without the discharge deflector securely fastened in place.

By following all instructions in this manual, you will prolong the life of your machine and maintain its maximum efficiency. Adjustments and maintenance should always be performed by a qualified technician.

If additional information or service is needed, contact your Authorized Jacobsen Dealer who is kept informed of the latest methods to service this equipment and can provide prompt and efficient service.

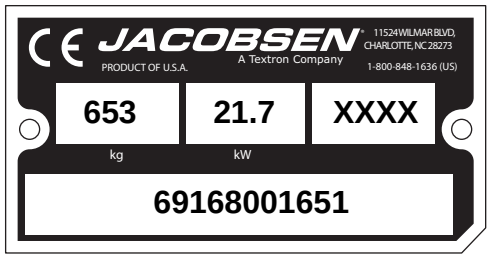
2 SPECIFICATIONS

2.1 PRODUCT IDENTIFICATION

69168 ..... Turfcat T628D 2WD with ROPS
69169 ..... Turfcat T628D 4WD with ROPS
69175 ..... Turfcat T628D 2WD with ROPS
69176 ..... Turfcat T628D 4WD with ROPS

Serial Number ..... An identification plate, like the one shown, listing the serial number, is attached to frame behind and to the left of the traction pedal.

Always provide the serial number of the unit when ordering replacement parts or requesting service information.



Product	EEC Sound Power	Sound Power Level Operator Ear	Vibration M/S^2	
			Arms	Body
69168	105 dB(A)	93 dB(A)	1.991	0.066
69169	105 dB(A)	93 dB(A)	1.991	0.066
69175	105 dB(A)	93 dB(A)	1.991	0.066
69176	105 dB(A)	93 dB(A)	1.991	0.066

2.2 KUBOTA D1305-E3B ENGINE

Make ..... Kubota
Model D1305-E3B
Horsepower ..... 29.1 hp (21.7 kW) @3000 rpm

Note: *Actual sustained horsepower will likely be lower than listed in specifications due to operating limitations and environmental factors.*

Displacement ..... 76.95 cu. In. (1261 cc)
Torque ..... 59.1 ft lbs. (80.1 Nm) @ 2000 rpm
Fuel:
- Type ..... No. 2 Low or Ultra Low Sulfur Diesel
- Rating ..... Cetane Rating-45
- Capacity ..... 9 U.S. Gal. (34 liters)

High Idle - rpm ..... 3220 no load
Low Idle - rpm ..... 1750 no load
Lubrication:
- Capacity ..... 6 qt (5.7 liters)
- Type ..... SAE 10W30
- API Classification ..... CD,CE

Air Filter ..... Dry type with service indicator
Alternator ..... 40 amp
Cooling System ..... Liquid Cooled

2.3 MOWER

Tires
- Front ..... 23 x 10.5-12 4 Ply
- Rear ..... 18 x 8.5-9 4 Ply

Pressure: ..... 14 psi (1 BAR)
Battery:
- Type ..... 12 Volt Lead/Acid
- Group ..... 45 GMF

Parking Brake ..... Mechanical front wheel drum

Speed:
- Mow ..... 0 - 6 mph (9.6 kph)
- Transport ..... 0 - 10 mph (16.1 kph)
- Reverse ..... 0 - 3 mph (4.8 kph)

Hydraulic System:
Capacity ..... 6.8 U.S. gal. (25.7 liters) System
Fluid Type 10W30
Return Filter ..... Full Flow 10 micron
Steering ..... Hydrostatic Power Steering
Mower Lift ..... Hand operated, lever controlled hydraulic lift system

2.4 CUTTING UNITS

Caster wheels ..... Two 11 x 4.5 pneumatic, tubeless 4 ply.
Weight Transfer..... Spring transfer 180 lbs. (82 kg) from cutting deck to mower
Blades/Decks ..... Fine-cut flail, rear discharge, side discharge or mulcher
Cutting Width ..... 60 in. (1524 mm), 63 in. (1600 mm), or 72 in. (1829 mm)

Cutting Capacity @ 5.5 mph (9 kph)
60 in. (1524 mm)..... 3.3 acres (1.3 ha)/hr
63 in. (1600 mm)..... 3.5 acres (1.4 ha)/hr
72 in. (1829 mm)..... 4 acres (1.6 ha)/hr
Height-of-cut ..... 1 to 4-3/4 in. (25 to 121 mm) in 1/4 in. (6 mm) increments

2.5 WEIGHTS

Dimensions:	Inches	(mm)
Length	88	(2235)
Height - Top of ROPS	82	(2083)
Height (Cab installed)	83.5	(2121)
Wheel Base	52	(1320)
Width (Without Mower)	52	(1320)

Weights:	Lbs.	(kg)
Without Deck		
69168 and 69175	1440	(653)
69169 and 69176	1490	(676)
69168 and 69175 with Cab	2728	(1237)
69169 and 69176 with Cab	2778	(1260)

2.6 ACCESSORIES & SUPPORT LITERATURE

Contact your area Jacobsen Dealer for a complete listing of accessories and attachments.

⚠ CAUTION

Use of other than Jacobsen authorized parts and accessories may cause personal injury or damage to the equipment and will void the warranty.

Accessories

Air Blow Gun JAC5098
Orange Touch-up Paint (12 oz. spray) 4184140
Canopy 68127
Care Free Deck Tires 2811454
Tie down brackets 970114
Turn Assist/Steering Brakes 970211
Differential Lock (2WD Only) 970116
Exhaust Spark Arrestor 148098
Leaf Mulcher 970017
Cab 4265610
Sun Shades ..... u
Rotary Brush/Front Blades ..... s
Debris Blower ..... H
Counterweight (Standard on 2WD Units) 2192304

Cutting Units

60 in. (1524 mm) Hydraulic Rear Discharge Deck 956023
63 in. (1600 mm) Hydraulic Side Discharge Deck 956314
72 in. (1829 mm) Hydraulic Rear Discharge Deck 957234
72 in. (1829 mm) Hydraulic Side Discharge Deck 957233
60 in. (1524 mm) Hydraulic Flail Mower 956025

Support Literature

Safety & Operation Manual 4201281
Parts & Maintenance Manual 4201280
Service Manual 4171722
DVD, Operator Training 4191628

u Contact: Sunguard
16930 South Shawnee Heights
Overbrook, KS 66524
Phone 800-899-2406
Fax (800) 899-2406

s Contact: M-B Companies, Inc.
1200 Park Street, Box 148
Chilton, WI 53014
Phone: (888) 558-5801
Fax: (920) 898-4588

H Contact: Buffalo Turbine Agricultural Equipment
180 Zoar Road
Springville, NY 14141
Phone: (716) 592-2700
Fax: (716) 592-2460

2 SPECIFICATIONS

2.7 DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY ▪ ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ ▪ PROHLÁŠENÍ O SHODĚ ▪ OVERENSSTEMMELSESERKLÆRING ▪ CONFORMITEITSVERKLARING ▪ VASTAVUSDEKLARATSIOON ▪ VAATIMUSTENMUKAISUUSVAKUUTUS ▪ DECLARATION DE CONFORMITE ▪ KONFORMITÄTSERKLÄRUNG ▪ ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ▪ MEGFELELŐSÉGI NYILATKOZAT ▪ DICHIARAZIONE DI CONFORMITÀ ▪ ATBILSTĪBAS DEKLARĀCIJA ▪ ATITIKTIES DEKLARACIJA ▪ DIKJARAZZJONI TAL-KONFORMITÀ ▪ DEKLARACJA ZGODNOŚCI ▪ DECLARAÇÃO DE CONFORMIDADE ▪ DECLARAŢIE DE CONFORMITATE ▪ VYHLÁSENIE O ZHODE ▪ IZJAVA O SKLADNOSTI ▪ DECLARACIÓN DE CONFORMIDAD ▪ DEKLARATION OM ÖVERENSSTÄMMELSE

Business name and full address of the manufacturer ▪ Търговско име и пълен адрес на производителя ▪ Obchodní jméno a plná adresa výrobce ▪ Producentens firmanavn og fulde adresse ▪ Bedrijfsnaam en volledig adres van de fabrikant ▪ Tootja ärinimi ja täielik aadress ▪ Valmistajan toiminimi ja täydellinen osoite ▪ Nom commercial et adresse complète du fabricant ▪ Firmenname und vollständige Adresse des Herstellers ▪ Επωνυμία και ταχυδρομική διεύθυνση κατασκευαστή ▪ A gyártó üzleti neve és teljes címe ▪ Ragione sociale e indirizzo completo del fabbricante ▪ Uzņēmuma nosaukums un pilna ražotāja adrese ▪ Verslo pavadinimas ir pilnas gamintojo adresas ▪ Isem kummerċjali u indirizz sħiħ tal-fabbrikant ▪ Nazwa firmy i pełny adres producenta ▪ Nome da empresa e endereço completo do fabricante ▪ Denumirea comercială şi adresa completă a producătorului ▪ Obchodný názov a úplná adresa výrobcu ▪ Naziv podjetja in polni naslov proizvajalca ▪ Nombre de la empresa y dirección completa del fabricante ▪ Tillverkarens företagsnamn och kompletta adress	Jacobsen, A Textron Company 11524 Wilmar Blvd. Charlotte, NC 28273, USA
Product Code ▪ Код на продукта ▪ Kód výrobku ▪ Produktkode ▪ Productcode ▪ Toote kood ▪ Tuotekoodi ▪ Code produit ▪ Produktcode ▪ Κωδικός προϊόντος ▪ Termékkód ▪ Codice prodotto ▪ Produkta kods ▪ Produkto kodas ▪ Kodiċi tal-Prodott ▪ Kod produktu ▪ Código do Produto ▪ Cod produs ▪ Kód výrobku ▪ Oznaka proizvoda ▪ Código de producto ▪ Produktkod	69168 and 69175 69169 and 69176
Machine Name ▪ Наименование на машината ▪ Název stroje ▪ Maskinnavn ▪ Machinenaam ▪ Masina nimi ▪ Laitteen nimi ▪ Nom de la machine ▪ Maschinenbezeichnung ▪ Ονομασία μηχανήματος ▪ Gépnév ▪ Denominazione della macchina ▪ Iekārtas nosaukums ▪ Mašinos pavadinimas ▪ Isem tal-Magna ▪ Nazwa urządzenia ▪ Nome da Máquina ▪ Numele echipamentului ▪ Názov stroja ▪ Naziv stroja ▪ Nombre de la máquina ▪ Maskinens namn	Turfcat 628D 2WD Turfcat 628D 4WD
Designation ▪ Предназначение ▪ Označení ▪ Betegnelse ▪ Benaming ▪ Nimetus ▪ Tyyppimerkintä ▪ Pažymėjimas ▪ Bezeichnung ▪ Χαρακτηρισμός ▪ Megnevezés ▪ Funzione ▪ Apzīmējums ▪ Lithuanian ▪ Denominazzjoni ▪ Oznaczenie ▪ Designação ▪ Specificaţie ▪ Označenie ▪ Namen stroja ▪ Descripción ▪ Beteckning	Lawnmower, Article 12, Item 32
Serial Number ▪ Сериен номер ▪ Sériové číslo ▪ Serienummer ▪ Serienummer ▪ Seerianumber ▪ Valmistusnumero ▪ Numéro de série ▪ Seriennummer ▪ Σειριακός αριθμός ▪ Sorozatszám ▪ Numero di serie ▪ Sērijas numurs ▪ Serijos numeris ▪ Numru Serjali ▪ Numer seryjny ▪ Número de Série ▪ Număr de serie ▪ Sériové číslo ▪ Serijska številka ▪ Número de serie ▪ Serienummer	6916801651-6916802500 6916801651-6916802500 6917501651-6917502500 6917601651-6917602500
Engine ▪ Двигател ▪ Motor ▪ Motor ▪ Motor ▪ Mootor ▪ Moottori ▪ Moteur ▪ Motor ▪ Μηχανή ▪ Modulnév ▪ Motore ▪ Dzinējs ▪ Variklis ▪ Saħħa Netta Installata ▪ Silnik ▪ Motor ▪ Motor ▪ Motor ▪ Motor ▪ Motor ▪ Motor	Kubota D1305-E3B Diesel
Net Installed Power ▪ Нетна инсталирана мощност ▪ Čistý instalovaný výkon ▪ Installeret nettoeffekt ▪ Netto geïnstalleerd vermogen ▪ Installeeritud netovõimsus ▪ Asennettu nettoteho ▪ Puissance nominale nette ▪ Installierte Nettoleistung ▪ Καθαρή εγκατεστημένη ισχύς ▪ Nettó beépített teljesítmény ▪ Potenza netta installata ▪ Paredzētā tīkla jauda ▪ Grynoji galia ▪ Wisa' tal-Qtugħ ▪ Moc zainstalowana netto ▪ Potência instalada ▪ Puterea instalată netă ▪ Čistý inštalovaný výkon ▪ Neto vgrajena moč ▪ Potencia instalada neta ▪ Nettoeffekt	21,7 kW @ 3000 RPM
Cutting Width ▪ Широчина на рязане ▪ Šířka řezu ▪ Skærebredde ▪ Maaibreedte ▪ Lõikelaius ▪ Leikkuuleveys ▪ Largeur de coupe ▪ Schnittbreite ▪ Μήκος μισινέζας ▪ Vágási szélesség ▪ Larghezza di taglio ▪ Griešanas platums ▪ Pjovimo plotis ▪ Tikkonforma mad-Direttivi ▪ Szerokość cięcia ▪ Largura de Corte ▪ Lăţimea de tăiere ▪ Šírka záberu ▪ Širina reza ▪ Anchura de corte ▪ Klippbredd	1,52 m to 1,83 m
Conforms to Directives ▪ В съответствие с директивите ▪ Splňuje podmínky směrnic ▪ Er i overensstemmelse med direktiver ▪ Voldoet aan de richtlijnen ▪ Vastab direktiividele ▪ Direktiivien mukainen ▪ Conforme aux directives ▪ Entspricht Richtlinien ▪ Ακολουθήστε πιστά τις Οδηγίες ▪ Megfelel az irányelveknek ▪ Conforme alle Direttive ▪ Atbilst direktīvām ▪ Atitinka direktyvų reikalavimus ▪ Valutazzjoni tal-Konformità ▪ Dyrektywy związane ▪ Cumpre as Directivas ▪ Respectă Directivele ▪ Je v súlade so smernicami ▪ Skladnost z direktivami ▪ Cumple con las Directivas ▪ Uppfyller direktiv	2004/108/EC 2006/42/EC 2000/14/EC, 2005/88/EC 2006/66/EC
Conformity Assessment ▪ Оценка за съответствие ▪ Hodnocení plnění podmínek ▪ Overensstemmelsesvurdering ▪ Conformiteitsbeoordeling ▪ Vastavushindamine ▪ Vaatimustenmukaisuuden arviointi ▪ Evaluation de conformité ▪ Konformitätsbeurteilung ▪ Διαπίστωση Συμμόρφωσης ▪ Megfelelőség-értékelés ▪ Valutazione della conformità ▪ Atbilstības novērtējums ▪ Atitikties įvertinimas ▪ Livell tal-Qawwa tal-Ħoss Imkejjel ▪ Ocena zgodności ▪ Avaliação de Conformidade ▪ Evaluarea conformităţii ▪ Vyhodnotenie zhodnosti ▪ Ocena skladnosti ▪ Evaluación de conformidad ▪ Bedömning av överensstämmelse	2006/42/EC Annex VIII
Measured Sound Power Level ▪ Измерено ниво на звукова мощност ▪ Naměřený akustický výkon ▪ Målte lydstyrkeniveau ▪ Gemeten geluidsniveau ▪ Mõõdetud helivõimsuse tase ▪ Mitattu äänitehotaso ▪ Niveau de puissance sonore mesuré ▪ Gemessener Schalldruckpegel ▪ Σταθμισμένο επίπεδο ηχητικής ισχύος ▪ Mért hangteljesítményszint ▪ Livello di potenza sonora misurato ▪ Izmērītais skaņas jaudas līmenis ▪ Išmatuotas garso stiprumo lygis ▪ Livell tal-Qawwa tal-Ħoss Iggarantit ▪ Moc akustyczna mierzona ▪ Nível sonoro medido ▪ Nivelul măsurat al puterii acustice ▪ Nameraná hladina akustického výkonu ▪ Izmerjena raven zvočne moči ▪ Nivel de potencia sonora medido ▪ Uppmätt ljudeffektsnivå	104 dB(A) LWA
Guaranteed Sound Power Level ▪ Гарантирано ниво на звукова мощност ▪ Garantovaný akustický výkon ▪ Garanteret lydstyrkeniveau ▪ Gegarandeerd geluidsniveau ▪ Garanteeritud helivõimsuse tase ▪ Taattu äänitehotaso ▪ Niveau de puissance sonore garanti ▪ Garantierter Schalldruckpegel ▪ Εγγυημένο επίπεδο ηχητικής ισχύος ▪ Szavatolt hangteljesítményszint ▪ Livello di potenza sonora garantito ▪ Garantētais skaņas jaudas līmenis ▪ Garantuotas garso stiprumo lygis ▪ Livell tal-Qawwa tal-Ħoss Iggarantit ▪ Moc akustyczna gwarantowana ▪ Nível sonoro farantido ▪ Nivelul garantat al puterii acustice ▪ Garantovaná hladina akustického výkonu ▪ Zajamčena raven zvočne moči ▪ Nivel de potencia sonora garantizado ▪ Garanterad ljudeffektsnivå	105 dB(A) LWA
Conformity Assessment Procedure (Noise) ▪ Оценка за съответствие на процедурата (Шум) ▪ Postup hodnocení plnění podmínek (hluk) ▪ Procedure for overensstemmelsesvurdering (Støj) ▪ Procedure van de conformiteitsbeoordeling (geluid) ▪ Vastavushindamismenetlus (müra) ▪ Vaatimustenmukaisuuden arviointimenettely (Melu) ▪ Procédure d'évaluation de conformité (bruit) ▪ Konformitätsbeurteilungsverfahren (Geräusch) ▪ Διαδικασία Αξιολόγησης Συμμόρφωσης (Θόρυβος) ▪ Megfelelőség-értékelési eljárás (Zaj) ▪ Procedura di valutazione della conformità (rumore) ▪ Atbilstības novērtējuma procedūra (troksnis) ▪ Atitikties įvertinimo procedūra (garsas) ▪ Proċedura tal-Valutazzjoni tal-Konformità (Ħoss) ▪ Procedura oceny zgodności (poziom hałasu) ▪ Processo de avaliação de conformidade (nível sonoro) Procedura de evaluare a conformităţii (zgomot) ▪ Postup vyhodnocovania zhodnosti (hluk) ▪ Postopek za ugotavljanje skladnosti (hrup) ▪ Procedimiento de evaluación de conformidad (ruido) ▪ Procedur för bedömning av överensstämmelse (buller)	2000/14/EC Annex VI, Part 1
UK Notified Body for 2000/14/EC ▪ Нотифициран орган в Обединеното кралство за 2000/14/ЕО ▪ Úřad certifikovaný podle směrnice č. 2000/14/EC ▪ Det britiske bemyndigede organ for 2001/14/EF ▪ Engels adviesorgaan voor 2000/14/EG ▪ Ühendkuningriigi teavitatud asutus direktiivi 2000/14/EÜ mõistes ▪ Direktiivin 2000/14/EY mukainen ilmoitettu tarkastuslaitos Isossa-Britanniassa ▪ Organisme notifié concernant la directive 2000/14/CE ▪ Britische benannte Stelle für 2000/14/EG ▪ Κοινοποιημένος Οργανισμός Ηνωμένου Βασιλείου για 2000/14/ΕΚ ▪ 2000/14/EK – egyesült királyságbeli bejelentett szervezet ▪ Organismo Notificato in GB per 2000/14/CE ▪ 2000/14/EK AK reģistrētā organizācija ▪ JK notifikuotosios įstaigos 2000/14/EC ▪ Korp Notifikat tar-Renju Unit għal 2000/14/KE ▪ Dopuszczona jednostka badawcza w Wielkiej Brytanii wg 2000/14/WE ▪ Entidade notificada no Reino Unido para 2000/14/CE ▪ Organism notificat în Marea Britanie pentru 2000/14/CE ▪ Notifikovaný orgán Spojeného kráľovstva pre smernicu 2000/14/ES ▪ Britanski priglašeni organ za 2000/14/ES ▪ Cuerpo notificado en el Reino Unido para 2000/14/CE ▪ Anmält organ för 2000/14/EG i Storbritannien	Number: 1088 Sound Research Laboratories Limited Holbrook House, Little Waldingfield Sudbury, Suffolk CO10 0TH

Operator Ear Noise Level • Оператор на нивото на доловим от ухото шум • Hladina hluku v oblasti uší operátora • Støjniveau i førers ørehøjde • Geluidsniveau oor bestuurder • Müratase operaatori kõrvas • Melutaso käyttäjän korvan kohdalla • Niveau de bruit à hauteur des oreilles de l'opérateur • Schallpegel am Bedienerohr • Επίπεδο θορύβου σε λειτουργία • A kezelő fülénél mért zajszint • Livello di potenza sonora all'orecchio dell'operatore • Trokšņa līmenis pie operatora auss • Dirbančiojo su mašina patiriamo triukšmo lygis • Livell tal-Ħoss fil-Widna tal-Operatur • Dopuszczalny poziom hałasu dla operatora • Nível sonoro nos ouvidos do operador • Nivelul zgomotului la urechea operatorului • Hladina hluku pôsobiaca na sluch operátora • Raven hrupa pri ušesu upravljavca • Nivel sonoro en el oído del operador • Ljudnivå vid förarens öra	93 dB(a) Leq (2006/42/EC)
Harmonised standards used • Използвани хармонизирани стандарти • Použité harmonizované normy • Brugte harmoniserede standarder • Gebruikte geharmoniseerde standaards • Kasutatud ühtlustatud standardid • Käytetyt yhdenmukaistetut standardit • Normes harmonisées utilisées • Angewandte harmonisierte Normen • Εναρμονισμένα πρότυπα που χρησιμοποιήθηκαν • Harmonizált szabványok • Standard armonizzati applicati • Izmantotie saskaņotie standarti • Panaudoti suderinti standartai • Standards armonizzati użati • Normy spójne powiązane • Normas harmonizadas usadas • Standardele armonizate utilizate • Použité harmonizované normy • Uporabljeni usklajeni standardi • Estándares armonizados utilizados • Harmoniserade standarder som används	BS EN ISO 20643 BS EN ISO 5349-1 BS EN ISO 5349-2 BS EN 836
Technical standards and specifications used • Използвани технически стандарти и спецификации • Použité technické normy a specifikace • Brugte tekniske standarder og specifikationer • Gebruikte technische standaards en specificaties • Kasutatud tehnilised standardid ja spetsifikatsioonid • Käytetyt tekniset standardit ja eritelmät • Spécifications et normes techniques utilisées • Angewandte technische Normen und Spezifikationen • Τεχνικά πρότυπα και προδιαγραφές που χρησιμοποιήθηκαν • Műszaki szabványok és specifikációk • Standard tecnici e specifiche applicati • Izmantotie tehniskie standarti un specifikācijas • Panaudoti techniniai standartai ir techninė informacija • Standards u speċifikazzjonijiet tekniċi użati • Normy i specyfikacje techniczne powiązane • Normas técnicas e especificações usadas • Standardele tehnice şi specificaţiile utilizate • Použité technické normy a špecifikácie • Uporabljeni tehnični standardi in specifikacije • Estándares y especificaciones técnicas utilizadas • Tekniska standarder och specifikationer som används	B71.4 ISO 2631-1 OSHA 1928.51
The place and date of the declaration • Място и дата на декларацията • Místo a datum prohlášení • Sted og dato for erklæringen • Plaats en datum van de verklaring • Deklaratsiooni väljastamise koht ja kuupäev • Vakuutuksen paikka ja päivämäärä • Lieu et date de la déclaration • Ort und Datum der Erklärung • Τόπος και ημερομηνία δήλωσης • A nyilatkozat kelte (hely és idő) • Luogo e data della dichiarazione • Deklarācijas vieta un datums • Deklaracijos vieta ir data • Il-post u d-data tad-dikjarazzjoni • Miejsce i data wystawienia deklaracji • Local e data da declaração • Locul şi data declaraţiei • Miesto a dátum vyhlásenia • Kraj in datum izjave • Lugar y fecha de la declaración • Plats och datum för deklarationen	Jacobsen, A Textron Company 11524 Wilmar Blvd. Charlotte, NC 28273, USA May 29, 2012
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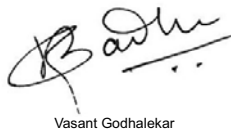
Undertecknas av den som bemyndigad att upprätta deklarationen å tillverkarens vägnar, innehar den tekniska dokumentationen och är bemyndigad att sammanställa den tekniska informationen och som är etablerad i gemenskapen.	2006/42/EC Annex II 1.A.2 Tim Lansdell Technical Director Ransomes Jacobsen Limited West Road, Ransomes Europark, Ipswich, IP3 9TT, England 2006/42/EC Annex II 1.A.10  Vasant Godhalekar VP of Engineering Jacobsen, A Textron Company 11524 Wilmar Blvd, Charlotte, NC 28273, USA
Certificate Number • Номер на сертификат • Číslo osvědčení • Certifikatnummer • Certificaatnummer • Sertifikaadi number • Hyväksyntänumero • Numéro de certificat • Bescheinigungsnummer • Αριθμός Πιστοποιητικού • Hitelesítési szám • Numero del certificato • Sertifikāta numurs • Sertifikato numeris • Numru taċ-Ċertifikat • Numer certyfikatu • Número do Certificado • Număr certificat • Číslo osvedčenia • Številka certifikata • Número de certificado • Certifikatsnummer	4201280 Rev C

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3 ADJUSTMENTS

3.1 GENERAL

⚠ WARNING

To prevent injury, lower implements to the ground, disengage all drives, engage parking brake, stop engine, and remove key from ignition switch before making any adjustments or performing maintenance.

Make sure the mower is parked on a solid and level surface. Never work on a mower that is supported only by the jack. Always use jack stands.

If only the front or rear of the mower is raised, place chocks in front of and behind the wheels that are not raised.

1. Adjustments and maintenance should always be performed by a qualified technician. If proper adjustment cannot be made, contact an authorized Jacobsen Dealer.
2. Replace, do not adjust, worn or damaged components.
3. Long hair, jewelry, or loose fitting clothing may get tangled in moving parts.

⚠ CAUTION

Be careful to prevent entrapment of the hands and fingers between moving and fixed components of the machine.

4. Do not change governor settings or overspeed the engine.

3.2 PARKING BRAKE

If optional turn assist brakes are installed, slide the lock pin toward the rear and to the left to lock the pedals together.

NOTE: *The brakes installed on the mower are self adjusting and should not require adjustment under normal operating conditions. If linings or brake drums appear worn or damaged, have them replaced immediately by an experienced service technician.*

1. For maximum braking power, a force of 135 lbs. (61 kg) is required to engage the parking brake.
2. Adjust brake rods on the right and left hand sides so they both begin brake engagement at the same time. If adjustment is needed, loosen the lock nut **(A)**, remove the hairpin and clevis pin **(B)**.
3. Rotate clevis **(C)** as required.
4. Tighten locknut **(A)**. Assemble clevis pin **(B)** and hairpin.
5. Additional adjustment is available at the brake arm if necessary by tightening nut **(D)**. Front wheels must be removed before making adjustments at brake arm.

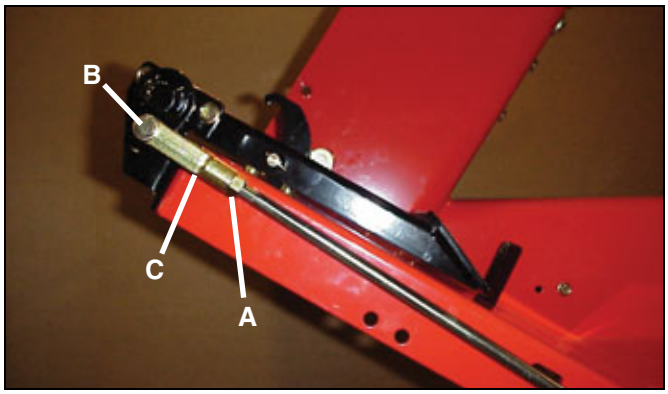


Figure 3A

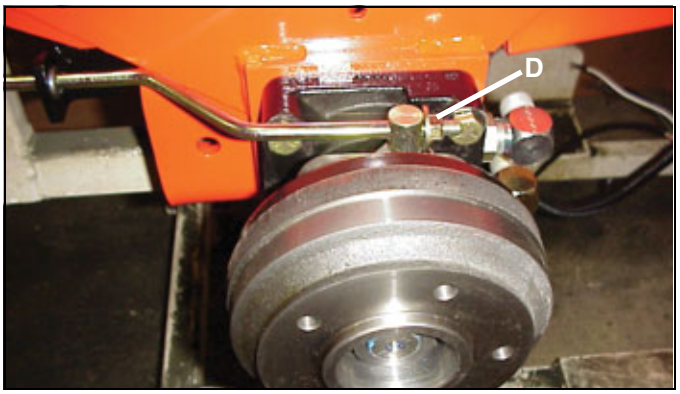


Figure 3B

3.3 ALTERNATOR BELT

Depress the belt at the center between the crankshaft and alternator pulleys with a force of 11 lbs. (5 kg). The belt should deflect approximately 0.2 in. (5 mm).

1. Loosen the pivot bolt at the base of the alternator.
2. Loosen the top bolt **(E)** and rotate the alternator along the guide to increase or decrease the belt tension.
3. While holding the alternator at this location, tighten bolt **(E)**.
4. Tighten the pivot bolt.
5. Verify belt tension and repeat adjustment if required.

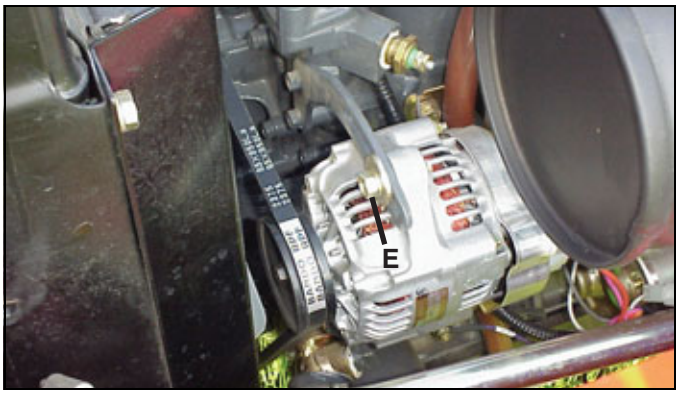


Figure 3C

3.4 REAR WHEEL ADJUSTMENTS

To adjust wheel toe-in:

The rear wheels should be 1/8 in. (3.2 mm) closer together at the front than at the back of the wheels.

1. Loosen locknuts **(F)** at each ball joint near the rear wheels.
2. Rotate tie rod **(G)** until the wheel is correctly positioned.
3. Tighten locknuts **(F)**.

To adjust steering shaft:

Loosen nut **(H)** and rotate steering shaft in cylinder to provide full steering right and left. Side of arm **(J)** should contact pin **(K)**. Check both sides.

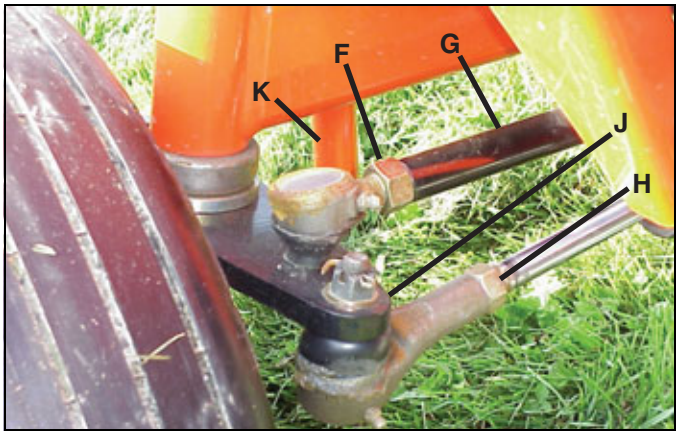


Figure 3D

3.5 TRACTION PEDAL

NOTE: *Stop engine between each step.*

1. Lift both right side wheels off the ground.

⚠ WARNING

Make sure the mower is parked on a solid and level surface. Never work on a mower that is supported only by the jack. Always use jack stands.

If only the front or rear of the mower is raised, place chocks in front of and behind the wheels that are not raised.

Exhaust fumes contain carbon monoxide that is toxic and can be fatal when inhaled.

NEVER operate an engine without proper ventilation.

2. Remove ball joint **(L)** from bracket **(M)** and let it hang.
3. Start the engine and check if wheels turn. If wheels do not turn, proceed with step 4. If wheels do turn, adjust hydro:
   a. Loosen ball joint jam nut **(N)**.
   b. Start the engine and adjust bolt **(P)** until the wheels stop turning.
   c. Lightly push and pull on bolt **(P)** to check for play in spring. Adjust locknut **(R)** if necessary, to remove play in spring. Repeat step b if required.
   d. Tighten jam nut **(N)**.
   e. Stop the engine.
4. Verify the traction pedal is in neutral and neutral latch is up and prevents pedal movement. If required, loosen jam nut **(S)** and adjust ball joint **(L)** until hole in ball joint aligns with hole in bracket **(M)**. Assemble ball joint to bracket.
5. Start engine and check for tire movement. If tires still turn repeat adjustment.
6. Tighten all nuts that were loosened for adjustment.

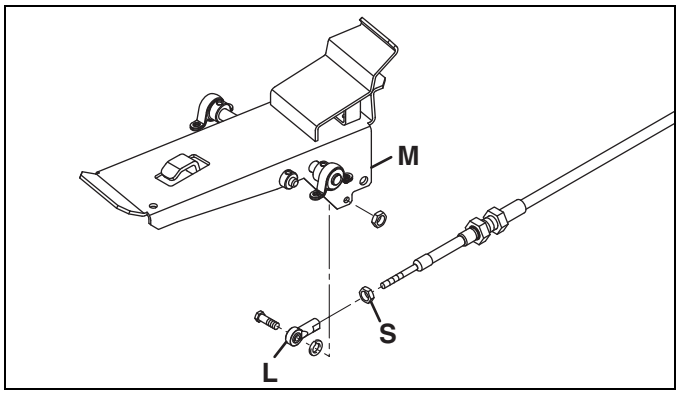


Figure 3E

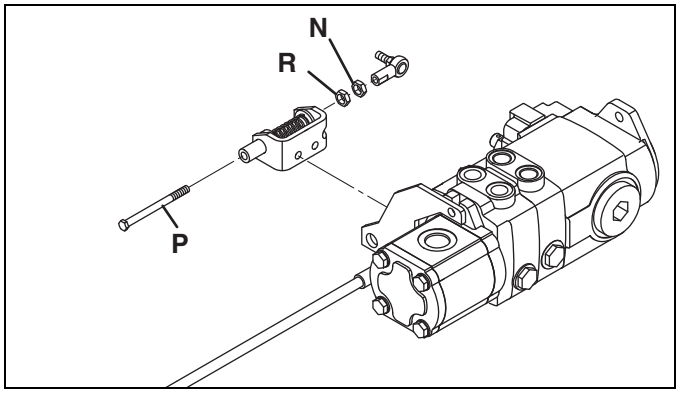


Figure 3F

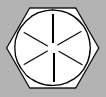
3.6 TORQUE SPECIFICATION

NOTICE

All torque values included in these charts are approximate and are for reference only. Use of these torque values is at your sole risk. Jacobsen is not responsible for any loss, claim, or damage arising from the use of these charts. **Extreme caution should always be used when using any torque value.**

Jacobsen uses Grade 5 bolts as standard, unless otherwise noted.

AMERICAN NATIONAL STANDARD FASTENERS			
SIZE	UNITS	GRADE 5	GRADE 8
#6-32	in-lbs (Nm)	20 (2.3)	–
#8-32	in-lbs (Nm)	24 (2.7)	30 (3.4)
#10-24	in-lbs (Nm)	35 (4.0)	45 (5.1)
#10-32	in-lbs (Nm)	40 (4.5)	50 (5.7)
#12-24	in-lbs (Nm)	50 (5.7)	65 (7.3)
1/4-20	in-lbs (Nm)	95 (10.7)	125 (14.1)
1/4-28	in-lbs (Nm)	95 (10.7)	150 (17.0)
5/16-18	in-lbs (Nm)	200 (22.6)	270 (30.5)
5/16-24	in-lbs (Nm)	240 (27.1)	300 (33.9)
3/8-16	ft-lbs (Nm)	30 (40.7)	40 (54.2)
3/8-24	ft-lbs (Nm)	35 (47.5)	45 (61.0)

AMERICAN NATIONAL STANDARD FASTENERS			
SIZE	UNITS	GRADE 5	 GRADE 8
7/16-14	ft-lbs (Nm)	50 (67.8)	65 (88.1)
7/16-20	ft-lbs (Nm)	55 (74.6)	70 (94.9)
1/2-13	ft-lbs (Nm)	75 (101.7)	100 (135.6)
1/2-20	ft-lbs (Nm)	85 (115.3)	110 (149.2)
9/16-12	ft-lbs (Nm)	105 (142.4)	135 (183.1)
9/16-18	ft-lbs (Nm)	115 (155.9)	150 (203.4)
5/8-11	ft-lbs (Nm)	150 (203.4)	195 (264.4)
5/8-18	ft-lbs (Nm)	160 (217.0)	210 (284.8)
3/4-10	ft-lbs (Nm)	170 (230.5)	220 (298.3)
3/4-16	ft-lbs (Nm)	175 (237.3)	225 (305.1)
7/8-14	ft-lbs (Nm)	300 (406.8)	400 (542.4)

METRIC FASTENERS							
SIZE	UNITS	4.8	5.8	8.8	10.9	12.9	Non Critical Fasteners into Aluminum
M4	Nm (in-lbs)	1.2 (11)	1.7 (15)	2.9 (26)	4.1 (36)	5.0 (44)	2.0 (18)
M5	Nm (in-lbs)	2.5 (22)	3.2 (28)	5.8 (51)	8.1 (72)	9.7 (86)	4.0 (35)
M6	Nm (in-lbs)	4.3 (38)	5.7 (50)	9.9 (88)	14.0 (124)	16.5 (146)	6.8 (60)
M8	Nm (in-lbs)	10.5 (93)	13.6 (120)	24.4 (216)	33.9 (300)	40.7 (360)	17.0 (150)
M10	Nm (ft-lbs)	21.7 (16)	27.1 (20)	47.5 (35)	66.4 (49)	81.4 (60)	33.9 (25)
M12	Nm (ft-lbs)	36.6 (27)	47.5 (35)	82.7 (61)	116.6 (86)	139.7 (103)	61.0 (45)
M14	Nm (ft-lbs)	58.3 (43)	76.4 (55)	131.5 (97)	184.4 (136)	219.7 (162)	94.9 (70)

4 MAINTENANCE

4.1 GENERAL

⚠ WARNING

Before you clean, adjust, or repair this equipment, disengage all drives, lower implements to the ground, engage parking brake, stop engine, and remove key from ignition switch to prevent injuries

Make sure the mower is parked on a solid and level surface. Never work on a mower that is supported only by the jack. Always use jack stands.

1. Adjustment and maintenance should always be performed by a qualified technician. If proper adjustments cannot be made, contact an Authorized Jacobsen Dealer.
2. Inspect the equipment on a regular basis, establish a maintenance schedule, and keep detailed records.
   a. Keep the equipment clean.
   b. Keep all moving parts properly adjusted and lubricated.
   c. Replace worn or damaged parts before operating the machine.
   d. Keep all fluids at their proper levels.
   e. Keep shields in place and all hardware securely fastened.
   f. Keep tires properly inflated.
3. Long hair, jewelry or loose fitting clothing may get tangled in moving parts.
4. Use the illustrations in the Parts Catalog as reference for the disassembly and reassembly of components.
5. Recycle or dispose of all hazardous materials (batteries, fuel, lubricants, anti-freeze, etc.) according to federal, state, or local regulations.

4.2 ENGINE

IMPORTANT: A separate Engine Manual, prepared by the engine manufacturer, is supplied with this mower. Read the Engine Manual carefully until you are familiar with the operation and maintenance of the engine. Proper attention to the engine manufacturer's directions will assure maximum service life of the engine. To order a replacement Engine Manual contact the engine manufacturer.

The proper break-in of a new engine can make a considerable difference to the performance and life of the engine.

Note: *The mower is designed to operate and cut most efficiently at the preset governor setting. Do not change the engine governor settings or overspeed the engine.*

During the break-in period, Jacobsen recommends the following:

1. During the first 50 hours of operation, a new engine should be allowed to reach an operating temperature of at least 140°F (60°C) prior to operation at full load.
2. Check the engine oil level twice daily during the first 50 hours of operation. Higher than normal oil consumption is not uncommon during the initial break-in period.
3. Change engine oil and oil filter element after first 50 hours of operation.
4. Check and adjust alternator belt.
5. Refer to **Section 6.3** and Engine Manual for specific maintenance intervals.

If the injection pump, injectors, or the fuel system require service, contact an authorized Jacobsen Dealer.

4.3 ENGINE OIL

Check the engine oil at the start of each day, before starting the engine. If the oil level is low, remove oil filler cap, and add oil as required.

Perform initial oil change after first 50 hours of operation and every 100 hours thereafter. See Engine Manual.

Use only engine oils with API classification CD/CE.

Above 77°F (25°C)	SAE 30W or SAE10W30/10W40
32 to 77°F (0 to 25°C)	SAE 20W or SAE 10W30/10W40
Below 32° (0°C)	SAE10W or SAE 10W30/10W40

4.4 AIR FILTER

Do not remove the element for inspection or cleaning. Unnecessary removal of t he filter increases the risk of injecting dust and other impurities into the engine. Refer to **Section 6.3** for specific maintenance intervals.

When service is required, first clean the outside of the filter housing; then remove the old element as gently as possible and discard.

1. Carefully clean the inside of the filter housing without allowing dust into the air intake.
2. Inspect the new element. Do not u se a damaged element and never use an incorrect element.
3. Assemble the new element and make sure it seats properly.
4. Reassemble cap making sure it seals completely around the filter housing. Dust evacuator must be facing down.
5. Check all hoses and air ducts. Tighten hose clamps.

4.5 FUEL

Handle fuel with care - it is highly flammable. Use an approved container, the spout must fit inside the fuel filler neck. Avoid using cans and funnels to transfer fuel.

⚠ WARNING

Never remove the fuel cap from the fuel tank, or add fuel, when the engine is running or while the engine is hot.

Do not smoke when handling fuel. Never fill or drain the fuel tank indoors.

Do not spill fuel and clean spilled fuel immediately.

Never handle or store fuel containers near an open flame or any device that may create sparks and ignite the fuel or fuel vapors.

Be sure to reinstall and tighten fuel cap securely.

- Fill the fuel tank to full mark on fuel gauge.
- Store fuel according to local, state, or federal ordinances and recommendations from your fuel supplier.
- Never overfill or allow the tank to become empty.
- Check fuel lines and clamps every 50 hours. Replace fuel lines and clamps at the first sign of damage.
- Use clean fresh #2 Low or Ultra Low Sulfur Diesel fuel. Minimum Cetane rating 45. Refer to Engine Manual for additional information.

4.6 FUEL MANAGER

Refer to **Section 6.3** for specific maintenance intervals.

Before replacing any filter, thoroughly clean the filter housing and the area around the filter. Dirt must not be allowed to enter into fuel system.

Bleed the fuel system if the water separater, fuel filter, or hoses have been removed, or the fuel tank has become empty.

Water Separater:

This mower is equipped with a fuel separater that traps the water in the fuel. If the water is not removed from the fuel system, extensive damage can occur in the fuel injection system.

The fuel separater can be removed from the fuel manager by holding black grip ring **(C)** and turning water separater counter-clockwise.

Water will collect at the bottom of the see-through bowl **(A)** and appear a different color than the fuel. To drain water from the water separater:

1. Place a small container under drain valve **(B)**.
2. Open drain valve **(B)** and allow the water to drain into the container.
3. Retighten drain valve and clean up any spilled fuel or water.
4. Bleed air from the fuel system.

Fuel Filter:

1. Remove the water separater.
2. Remove black retaining ring **(D)**.
3. Pull the fuel filter straight down. Do not twist the fuel filter when removing. Dispose of the old filter element according to local regulations.

NOTICE

The fuel filter is not threaded and damage to the fuel manager or filter may result by attempting to turn the filter during removal or installation.

4. Align key if filter element with the slot in the header and push the new filter element up in the center of the fuel manager.
5. Install retaining ring **(D)**. Hand tighten retaining ring until it clicks and the arrows line up under the air vent **(E)**.
6. Bleed air from the fuel system.

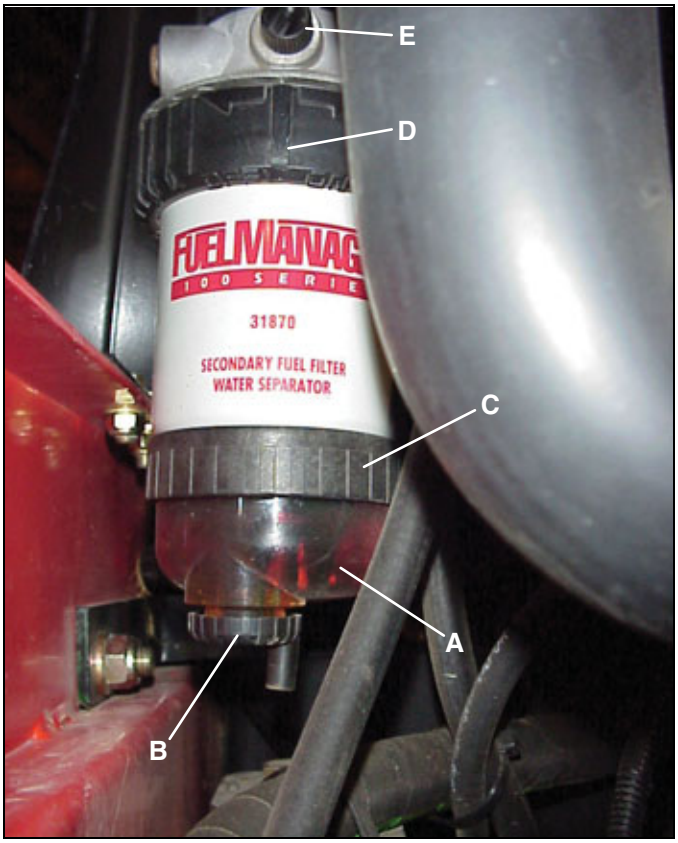


Figure 4A

4.7 HAND PRIMER PUMP

The hand primer pump **(F)** is used to purge air from the fuel system. The entire pump assembly is replaceable if necessary. See the parts list for fuel manager service parts.

1. Carefully remove the black retaing ring. The primer pump is spring loaded.
2. Remove hand pump components and replace with new compoents.

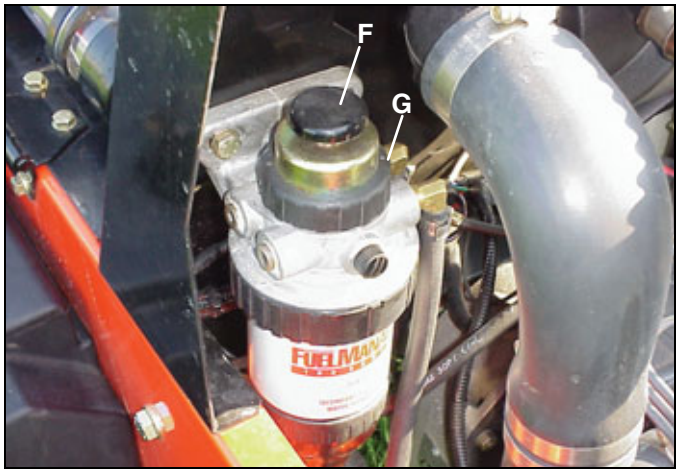


Figure 4B

4.8 BLEEDING FUEL SYSTEM

Bleed the fuel system if the water separater, fuel filter, or hoses have been removed, or the fuel tank has become empty.

1. Loosen the air vent **(E)** one to two turns.
2. Fully depress and release hand primer pump plunger **(F)** until all air has escaped. Up to s ixty pumps of the hand primer may be required.
3. Close air vent **(E)**.
4. Loosen air vent bolt **(G)** on engine fuel injector pump.
5. Engage the parking brake.
6. Turn the keyswitch, cranking the engine until all air has escaped. Turn the keyswitch to the off position.
7. Tighten air vent bolt **(G)**.

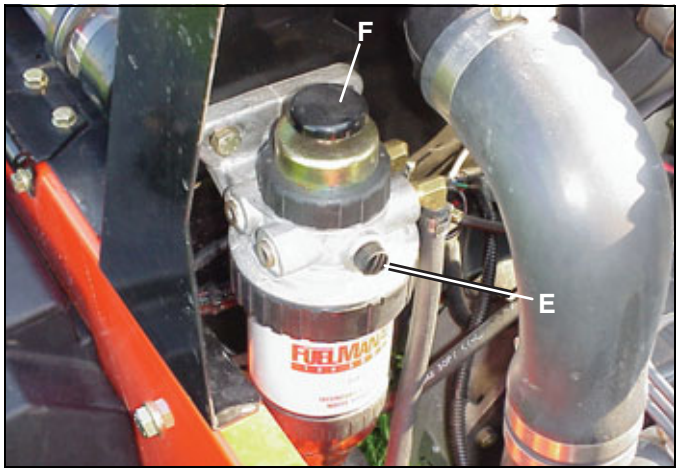


Figure 4C

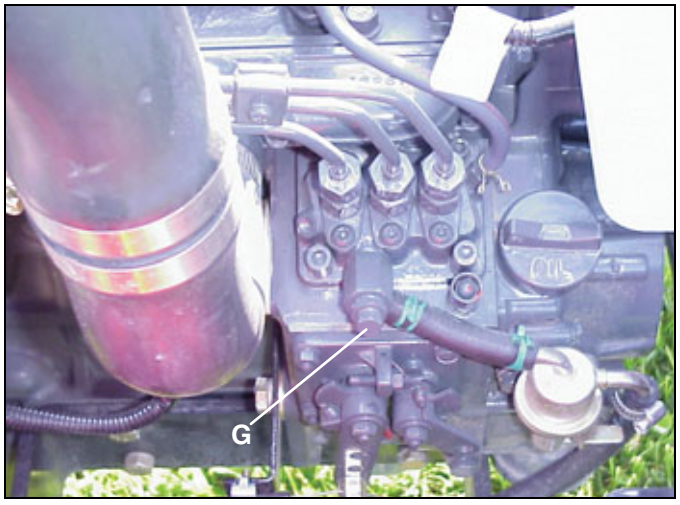


Figure 4D

4.9 BATTERY

Make absolutely certain the ignition switch is OFF and the key has been removed before servicing the battery.

⚠ CAUTION

Always use insulated tools, wear protective glasses or goggles, and protective clothing when working with batteries. You must read and obey all battery manufacturer's instructions.

Tighten cables securely to battery terminals and apply a light coat of silicone dielectric grease to terminals and cable ends to prevent corrosion. Keep vent caps and terminal covers in place.

Always disconnect battery cables from battery before performing any welding operation on the mower.

Check the electrolyte level every 100 hours. Keep the cable ends, battery, and battery posts clean.

Verify battery polarity before connecting or disconnecting the battery cables.

1. When installing the battery, always assemble the RED, positive (+) battery cable first, and the ground, BLACK, negative (-) cable last.
2. When removing the battery, always remove the ground, BLACK, negative (-) cable first, and the RED, positive (+) cable last.
3. Make sure battery is properly installed and secured to the battery tray.

⚠ WARNING

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. **Wash your hands after handling.**

4.10 JUMP STARTING

Before attempting to "jump start" the mower, check the condition of the discharged battery. **See Section 4.9**.

⚠ WARNING

Batteries generate explosive hydrogen gas. To reduce the chance of an explosion, avoid creating sparks near battery. Always connect the negative jumper cable to the frame of the mower with the discharged battery, away from the battery.

When connecting jumper cables:

1. Stop the engine on the vehicle with a good battery.
2. Connect RED jumper cable to the positive (+) terminal on the good battery and to the positive (+) terminal on the "discharged" battery.
3. Connect the BLACK jumper cable from the negative (-) terminal on the good battery to the frame of the mower with the discharged battery.

After cables have been connected, start the engine on the vehicle with the good battery then start the mower.

4.11 CHARGING BATTERY

⚠ WARNING

Charge battery in a well ventilated area. Batteries generate explosive gases. To prevent an explosion, keep any device that may create sparks or flames away from the battery.

To prevent injury, stand away from battery when the charger is turned on. A damaged battery could explode.

1. Refer to **Section 4.9**. Read the Battery and Charger's manual for specific instructions.
2. Whenever possible, remove the battery from the mower before charging. If battery is not sealed, check that the electrolyte covers the plates in all the cells.
3. Make sure the charger is Off. Then connect the charger to the battery terminals as specified in the charger's manual.
4. Always turn the charger Off before disconnecting charger from the battery terminals.

4.12 HYDRAULIC HOSES

⚠ WARNING

To prevent serious injury from hot, high pressure oil, never use your hands to check for oil leaks, use paper or cardboard.

Hydraulic fluid escaping under pressure can have sufficient force to penetrate skin. If fluid is injected into the skin it must be surgically removed within a few hours by a doctor familiar with this form of injury or gangrene may result.

1. Always lower implements to ground, disengage all drives, engage parking brake, stop engine, and remove key before inspecting or disconnecting hydraulic lines or hoses.
2. Check visible hoses and tubes daily. Look for wet hoses or oil spots. Replace worn or damaged hoses and tubes before operating the machine.
3. The replacement tube or hoses must be routed in the same path as the existing hose, do not move clamps, brackets, and ties to a new location.
4. Thoroughly inspect all tubes, hoses, and connections every 250 hours.

IMPORTANT: The hydraulic system can be permanently damaged if the oil becomes contaminated. Before disconnecting any hydraulic component, clean the area around the fittings, and the hose ends to keep impurities out of the system.

a. Before disconnecting any hydraulic component, tag or mark the location of each hose then clean the area around the fittings.

b. As you disconnect the component, be prepared to assemble plugs or caps to the hose ends and open ports. This will keep impurities out of the hydraulic system and also prevent oil spills.

c. Make sure O-rings are clean and hose fittings are properly seated before tightening.

d. Keep the hose from twisting. Twisted hoses can cause couplers to loosen as the hose flexes during operation resulting in oil leaks.

e. Kinked or twisted hoses can restrict the oil flow causing the system to malfunction and the oil to overheat and also lead to hose failure.

4.13 HYDRAULIC OIL AND FILTER

Refer to **Section 6.3** for specific maintenance intervals.

Drain and replace the hydraulic oil after a major component failure, or if you notice the presence of water or foam in the oil, or a rancid odor (indicating excessive heat).

Always replace the hydraulic filter when changing oil.

To change hydraulic oil:

1. Clean the area around the oil cap to prevent impurities from entering and contaminating the system.
2. Remove drain plug from bottom of main tank.
3. After oil has drained install drain plug and fill with Jacobsen Hydraulic oil.
4. Purge air from system.
   a. To prevent reels from overheating, disconnect motors from reels.
   b. Operate all mower functions for about 5 minutes to purge air out of the system and stabilize the oil level.
   c. Once the level has stabilized and the air is purged, fill tank to Full mark on gauge.

The hydraulic system is protected by one 10 micron filter **(A)**. The filter is located under the operator platform near the hydraulic oil tank.

To replace hydraulic oil filter:

1. Remove the old filter.
2. Fill new filter with oil then install new filter. Hand tighten only.
3. Operate engine at idle speed with hydraulic system in Neutral for five minutes.
4. Check hydraulic oil level and fill to Full mark on gauge.

4.14 ELECTRICAL SYSTEM

⚠ CAUTION

Always turn the ignition switch off and remove the negative battery cable (Black) before inspecting or working on the electrical system.

General precautions that can be t aken to reduce electrical problems are listed below.

1. Make certain all terminals and connections are clean and properly secured.
2. Check the Interlock System and ignition fuse regularly.

   If the Interlock System does not function properly and the problem cannot be c orrected, contact an authorized Jacobsen Dealer.
3. Keep the wire harness and all individual wires away from moving parts to prevent damage.
4. Make sure the seat switch harness is connected to the main wire harness.
5. Check the battery and battery charging circuit.
6. Do not wash or pressure spray around electrical connections and components.

4.15 MUFFLER AND EXHAUST

⚠ WARNING

Exhaust fumes contain carbon monoxide that is toxic and can be fatal when inhaled.

NEVER operate an engine without proper ventilation.

To protect from carbon monoxide poisoning, inspect the complete exhaust system regularly and always replace a defective muffler.

If you notice a change in the color or sound of the exhaust, stop the engine immediately. Identify the problem and have the system repaired.

Torque all exhaust manifold hardware evenly. Tighten or replace exhaust clamps.

4.16 TIRES

1. Keep tires properly inflated to prolong tire life. Check inflation pressure while the tires are cool. Inspect tread wear.
2. Check the pressure with an accurate, low pressure tire gauge.
1. Keep tires inflated to 14 psi (1 BAR kPa).

⚠ CAUTION

Unless you have the proper training, tools, and experience, DO NOT attempt to mount a tire on a rim. Improper mounting can produce an e xplosion which may result in serious injury.

4.17 WHEEL MOUNTING PROCEDURE

⚠ WARNING

Make sure the mower is parked on a solid and lev el surface. Never work on a mower that is supported only by the jack. Always use jack stands.

If only the front or rear of the mower is raised, place chocks in front of and behind the wheels that ar e not raised.

1. Remove dirt, grease, and oil from stud thread. Do not lubricate threads.
2. Position wheel on hub and inspect to insure full contact between mounting surface of wheel and hub or brak e drum.
3. Finger tighten all hardware then torque hardware in criss-cross order; always tighten nuts in the top position.
4. Check and r etorque daily until torque is maintained, Front: 55 ft lb (75 Nm).
   Rear: 80 ft lb (108 Nm)

4.18 CARE AND CLEANING

Wash the mower and implements after each use. Keep the equipment clean.

NOTICE

Do not wash any portion of the equipment while it is hot. Do not use high pressure spray or steam. Use cold water and automotive cleaners.

1. Use compressed air to clean engine and radiator fins. A special blow gun is available through Jacobsen Dealer.
2. Use only fresh water for cleaning your equipment.

NOTICE

Use of salt water or affluent water has been known to encourage rust and corrosion of metal parts resulting in premature deterioration or failure. Damage of this nature is not covered by the factory warranty.

3. Do not spray water directly at the instrument panel, ignition switch, controller, any other electrical components, or at bearing housings and seals.
4. Clean all plastic or rubber trim with a mild soap solution or use commercially available vinyl/rubber cleaners.
5. To maintain the original high luster of the fiberglass, periodically wax with a good grade of One-Step cleaner wax.

Repair damaged metal surfaces and use Jacobsen touch-up paint. Wax the equipment for maximum paint protection.

⚠ CAUTION

Clean grass and debris from cutting units, drives, muffler, and engine to prevent fires.

⚠ WARNING

NEVER use your hands to clean cutting units. Use a brush to remove grass clippings from blades. Blades are extremely sharp and can cause serious injuries.

4.19 RADIATOR

⚠ WARNING

To prevent serious bodily injury from hot coolant or steam blow-out, never attempt to remove the radiator cap while the engine is running. Stop the engine and wait until it is cool. Even then, use extreme care when removing the cap.

⚠ CAUTION

Do not pour cold water into a hot radiator. Do not operate engine without a proper coolant mixture. Install cap and tighten securely.

Check coolant level daily. Radiator should be full and recovery bottle should be up to the **cold** mark.

Drain and refill annually. Remove the radiator cap, open the engine block drain and the radiator drain. Empty and clean the recovery bottle.

Mix clean water with ethylene glycol based anti-freeze for the coldest ambient temperature. Read and follow the instructions on the anti-freeze container and engine manual.

Keep radiator air passages clean. Use compressed air (30 psi (207 kPa) maximum) to clean the fins.

Check and tighten the fan belt. Replace clamps and hoses every two years.

If you have to add coolant more than once a month, or add more than one quart at a time, have a authorized Jacobsen Dealer check the cooling system.

4.20 STORAGE

General

1. Wash the tractor thoroughly and lubricate. Repair and paint damaged or exposed metal.
2. Inspect the tractor, tighten all hardware, replace worn or damaged components.
3. Drain and refill radiator.
4. Clean the tires thoroughly and store the tractor so the load is off the tires. If tractor is not on jack stands, check tires at regular intervals and reinflate as necessary.
5. Keep the machine and all its accessories clean, dry and protected from the elements during storage. Never store equipment near an open flame or spark which could ignite fuel or fuel vapors.

Battery

1. Remove, clean and store battery in upright position in a cool, dry place.
2. Check and recharge battery every 60 to 90 days while in storage.
3. Store batteries in a cool, dry place. To reduce the self discharge rate, room temperature should not be above 80°F (27°C) or fall below 20°F (- 7°C) to prevent electrolyte from freezing.

Engine (General)

1. While the engine is warm, remove the drain plug, drain the oil from the crankcase and change oil filter. Install drain plug and refill with fresh oil. Let engine cool before storing.
2. Clean exterior of engine. Paint exposed metal, or apply a light coat of rust preventative oil.
3. Add a fuel conditioner or biocide to prevent gelling or bacterial growth in fuel. See your local fuel supplier.

Cutting Units

1. Wash the cutting units thoroughly, then repair and paint any damaged or exposed metal.
2. Lubricate all fittings and friction points.
3. Apply a light coat of rust preventative oil to the sharpened edges of the blades.

⚠ CAUTION

To prevent personal injury and damage to the cutting edges, handle the blades with extreme care.

After Storage

1. Check and reinstall battery.
2. Check or service fuel filter and air cleaner.
3. Check the radiator coolant level.
4. Check oil level in the engine crankcase and hydraulic system.
5. Fill the fuel tank with fresh fuel. Open fuel shut off valve and bleed the fuel system.
6. Make certain that the tires are properly inflated.
7. Remove all oil from the reels and bedknife. Adjust bedknife and cutting height.
8. Start and operate the engine at 1/2 throttle. Allow enough time for the engine to become properly warmed and lubricated.

⚠ WARNING

Never operate the engine without proper ventilation; exhaust fumes can be fatal when inhaled.

5.1 GENERAL

The troubleshooting chart below lists basic problems that may occur during start-up and operation. For more detailed information regarding the hydraulic and electrical systems contact your area Jacobsen Dealer.

Symptoms	Possible Causes	Action
Engine will not start.	1. Traction pedal not in neutral or Interlock switch on.	1. Check Interlock System and start-up procedure.
	2. Battery low on charge or defective.	2. Inspect condition of battery and battery connections.
	3. Fuel tank empty or dirty.	3. Fill with fresh fuel. Change fuel filter. Bleed fuel lines.
	4. Fuse blown.	4. Replace fuse.
Engine hard to start or runs poorly.	1. Fuel level low, fuel or fuel filter dirty.	1. Fill with fresh fuel. Change fuel filter. Bleed fuel lines.
	2. Air cleaner dirty.	2. Inspect and replace air filter.
	3. Injectors, fuel pump.	3. Consult engine manual.
	4. Engine problem.	4. Consult engine manual.
Engine stops.	1. Fuel tank empty.	1. Fill with fresh fuel and bleed fuel lines.
	2. Interlocks not set before leaving operator's seat.	2. Engage parking brake, set PTO switch to OFF and traction pedal in neutral before leaving seat.
Engine overheating.	1. Coolant level low.	1. Inspect and add coolant.
	2. Air intake restricted.	2. Clean cooling air intake.
	3. Water pump belt broken or loose.	3. Tighten or replace belt.
	4. Engine overload.	4. Reduce forward speed.
Battery not holding charge.	1. Loose or corroded battery terminals.	1. Inspect and clean terminals.
	2. Low electrolyte.	2. Refill to correct level.
	3. Alternator belt loose or broken.	3. Tighten or replace belt.
	4. Charging system defective.	4. See engine manual.
Mowers do not cut or cut unevenly.	1. Cutting units not fully lowered.	1. Lower cutting units to ground.
	2. Engine speed too low.	2. Check engine speed. Run engine at full throttle.
	3. Low hydraulic oil.	3. Check reservoir level and fill if needed.
Mower does not react to traction pedal.	1. Parking brake engaged.	1. Disengage parking brake.
	2. Tow Valve Open.	2. Close Tow Valve.
	3. Low hydraulic oil.	3. Check reservoir level and fill if needed.
Implement does not raise or lower.	1. Low hydraulic oil.	1. Check reservoir level and fill as needed.
Gauges/Indicator not operating.	1. Fuse blown.	1. Replace fuse, check bulbs.
	2. Loose wiring.	2. Check electrical connections.

6 MAINTENANCE & LUBRICATION CHARTS

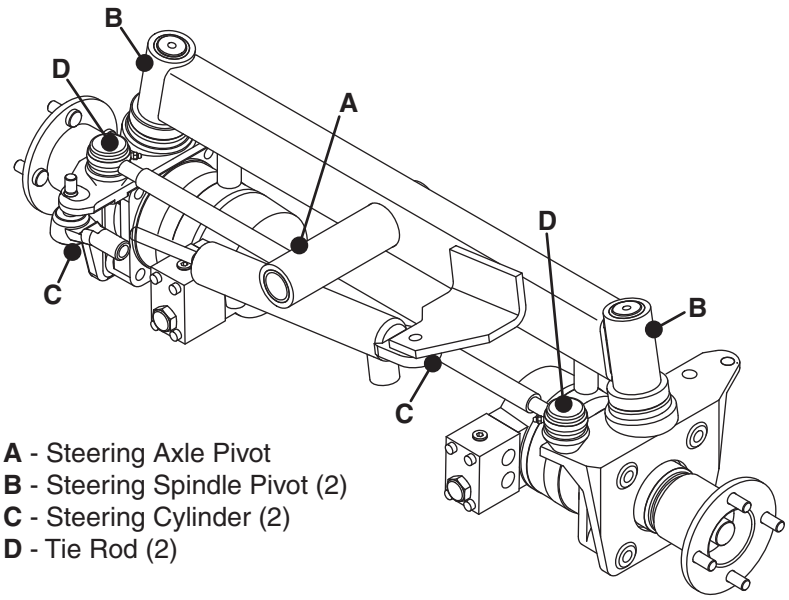
6.1 GENERAL

⚠ WARNING

Before you clean, adjust, or repair this equipment disengage all drives, lower implements to the ground, engage parking brake, stop engine, and remove key from ignition switch to prevent injuries.

1. Always clean the grease fitting before and after lubricating.
2. Lubricate with grease that meets or exceeds NLGI Grade 2 LB specifications. Apply grease with a manual grease gun and fill slowly until grease begins to seep out. Do not use compressed air guns.
3. Periodically apply a small amount of lithium based grease to the seat runners.
4. For smooth operation of all levers, pivot points and other friction points that are not shown on the lubrication chart apply several drops of SAE 30 oil every 40 hours or as required.
5. Grease fittings every 40 hours.

6.2 LUBRICATION CHART



A - Steering Axle Pivot
B - Steering Spindle Pivot (2)
C - Steering Cylinder (2)
D - Tie Rod (2)

6.3 MAINTENANCE CHARTS

Recommended Service and Lubrication Intervals

	Every 8-10 Hours	Every 50 Hours	Every 100 Hours	Every 250 Hours	Every 400 Hours	Every 500 Hours	Every 1000 Hours	Yearly	See Section	Lubricant Type
Air Filter	I				R**			R	4.4	
Battery Charge			I						4.9	
Belts (Alternator and Deck)	I-A*		I-A			R			3.3	
Brake		I-A*		A					3.2	
Cooling System	I-C-A							R	4.19	IV
Electrical System		I*		I					4.14	
Engine Oil (Diesel)	I	R*	R						4.3	II
Engine Oil Filter		R*	R							
Fuel System		I						C****		
Fuel Filter					R				4.6	
Fuel Water Separater	I								4.6	
Grease Fittings - All		L							6.2	I
Hydraulic Hoses and Tubes	I***			I					4.12	
Hydraulic Oil	I-A				R				4.13	III
Hydraulic Oil Filter	I			R					4.13	
Interlock System	I-A									
Muffler and Exhaust	I			I					4.15	
Radiator Screens	I-C/AR								4.19	
Tires	I-A								4.16	

A - Add or Adjust C - Clean I - Inspect L- Lubricate R - Replace AR - As Required

* Indicates initial service for new machines.

** Sooner for dirty operating conditions.

*** Inspect visible hoses and tubes for leaks or oil marks.

**** Drain and clean fuel tank.

I - Manual grease gun with NLGI Grade 2 (Service Class LB).

II - Engine Oil - See Section 4.4

III - Use Jacobsen hydraulic fluid: Capacity: 5 gallons (19 Liters). Order Part No. 2500548 carton, containing two 2-1/2 gal. (9.5 liter) bottles or Part No. 2500546 containing 5 gal. (19 liters), pail.

IV - 50/50 water ethylene glycol mix.

7 NOTES

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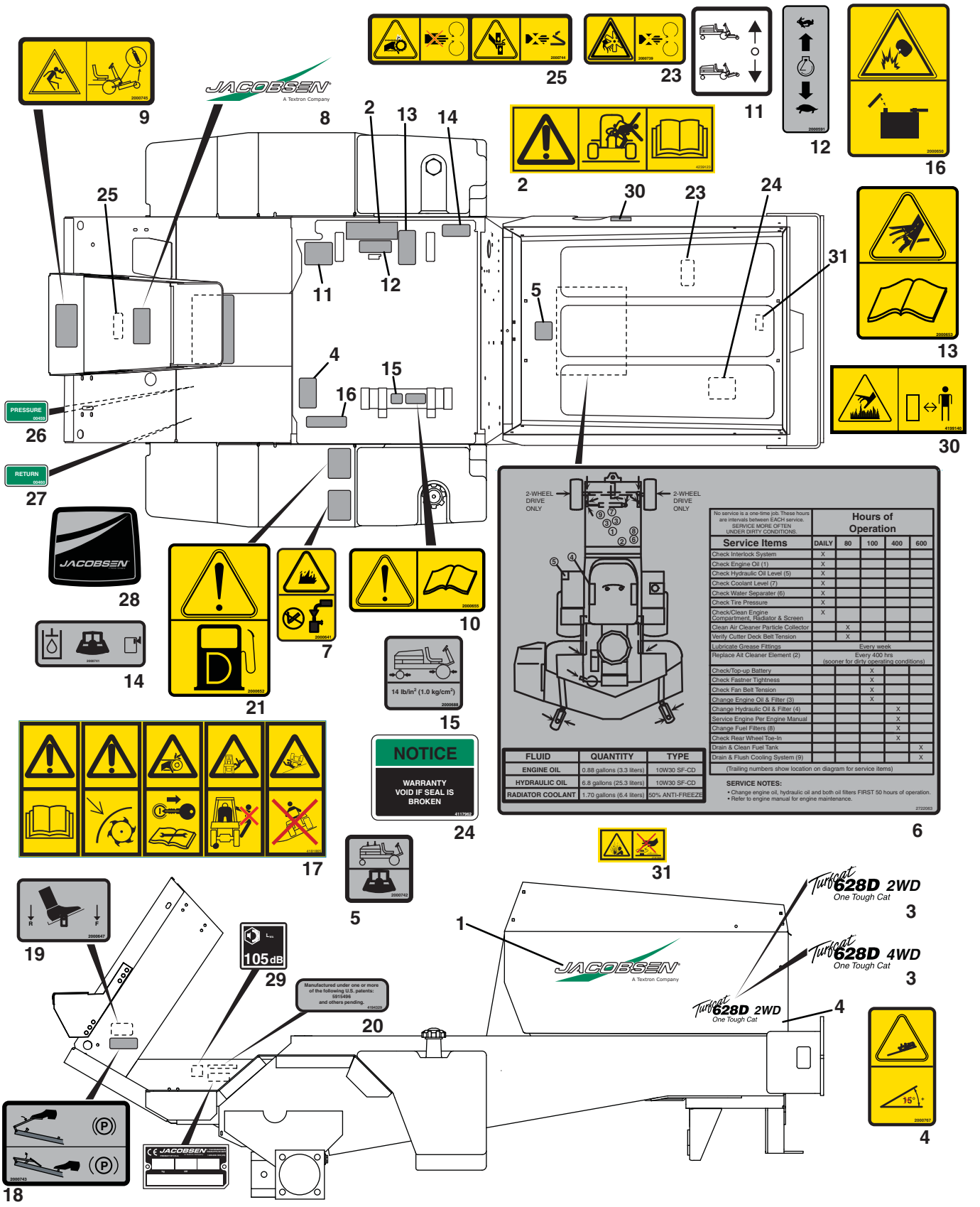
1.1 Decals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PRESSURE
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RETURN
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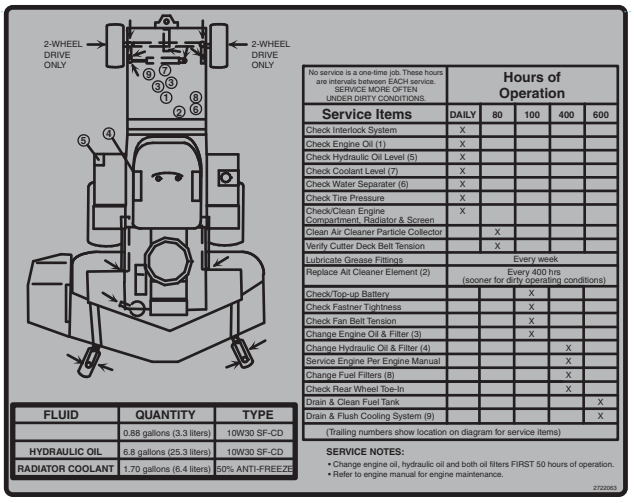
15
2-WHEEL DRIVE ONLY
2-WHEEL DRIVE ONLY
Hours of Operation
Service Items
DAILY
80
100
400
600
Check Interlock System
Check Engine Oil (1)
Check Hydraulic Oil Level (5)
Check Coolant Level (7)
Check Water Separator (6)
Check Tire Pressure
Check/Clean Engine Compartment, Radiator & Screen
Clean Air Cleaner Particle Collector
Verify Cutter Deck Belt Tension
Lubricate Grease Fittings
Replace Air Cleaner Element (2)
Every week
Every 400 hrs (sooner for dirty operating conditions)
Check/Top-up Battery
Check Fastner Tightness
Check Fan Belt Tension
Change Engine Oil & Filter (3)
Change Hydraulic Oil & Filter (4)
Service Engine Per Engine Manual
Change Fuel Filters (8)
Check Rear Wheel Toe-In
Drain & Clean Fuel Tank
Drain & Flush Cooling System (9)
(Trailing numbers show location on diagram for service items)
FLUID
QUANTITY
TYPE
ENGINE OIL
0.88 gallons (3.3 liters)
10W30 SF-CD
HYDRAULIC OIL
6.8 gallons (25.3 liters)
10W30 SF-CD
RADIATOR COOLANT
1.70 gallons (6.4 liters)
50% ANTI-FREEZE
SERVICE NOTES:
• Change engine oil, hydraulic oil and both oil filters FIRST 50 hours of operation.
• Refer to engine manual for engine maintenance.
6
NOTICE
WARRANTY VOID IF SEAL IS BROKEN
24
17
5
31
19
105 dB
29
20
1
3
3
4
4
18

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4179663	2	Decal, Jacobsen	
2	4239123	1	Decal, Seat Restraint	
3	4125286	2	Decal, Turfcat 2WD	Used on 69168 and 69175
3	4126532	2	Decal, Turfcat 4WD	Used on 69169 and 69176
4	2000767	1	Decal, Slope Warning	
5	2000742	1	Decal, Air Intake	
6	2722063	1	Decal, Service	
7	2000641	1	Decal, Fuel Warning	
8	4179664	1	Emblem, Jacobsen	
9	2000745	1	Decal, Spring Tension	
10	2000655	1	Decal, Read Manual	
11	2000740	1	Decal, Deck Lift Lever	
12	2000591	1	Decal, Throttle Lever	
13	2000653	1	Decal, Hydraulic Leak Warning	
14	2000741	1	Decal, Hydraulic Reservoir	
15	2000688	1	Decal, Tire Pressure 14 psi	
16	2000650	1	Decal, Battery Warning	
17	4181865	1	Decal, Main Warning	
18	2000743	1	Decal, Brake Pedal	
19	2000647	1	Decal, Forward/Reverse	
20	4194329	1	Decal, Patent Number	Used on 69169 Only
21	2000652	1	Decal, Diesel Fuel	
22	REF	1	Serial Plate	
23	2000739	1	Decal, Fan Warning	
24	4117962	1	Decal, Warranty Void	
25	2000744	1	Decal, Rotating Parts Warning	
26	00459	1	Decal, Pressure	
27	00460	1	Decal, Pressure	
28	4127564	1	Decal, Steering Wheel Cap	Located on Steering Wheel 69168 - 1651~1778 69169 - 1651~1906
29	4117468	1	Decal, 105 dB Sound	
30	4199140	1	Decal, Heat	
31	4181862	1	Decal, Radiator Cap Warning	Located on Radiator

> Change from previous revision

2.1 Hood and Fenders



No service is a one-time job. These hours are intervals between EACH service. SERVICE MORE OFTEN UNDER DIRTY CONDITIONS.

Service Items	Hours of Operation DAILY	80	100	400	600
Check Interlock System	X				
Check Engine Oil (1)	X				
Check Hydraulic Oil Level (5)	X				
Check Coolant Level (7)	X				
Check Water Separater (6)	X				
Check Tire Pressure	X				
Check/Clean Engine Compartment, Radiator & Screen	X				
Clean Air Cleaner Particle Collector		X			
Verify Cutter Deck Belt Tension		X			
Lubricate Grease Fittings	Every week				
Replace Alt Cleaner Element (2)	Every 400 hrs (sooner for dirty operating conditions)				
Check/Top-up Battery			X		
Check Fastner Tightness			X		
Check Fan Belt Tension			X		
Change Engine Oil & Filter (3)			X		
Change Hydraulic Oil & Filter (4)				X	
Service Engine Per Engine Manual				X	
Change Fuel Filters (8)				X	
Check Rear Wheel Toe-In				X	
Drain & Clean Fuel Tank					X
Drain & Flush Cooling System (9)					X
(Trailing numbers show location on diagram for service items)					

FLUID	QUANTITY	TYPE
	0.88 gallons (3.3 liters)	10W30 SF-CD
HYDRAULIC OIL	6.8 gallons (25.3 liters)	10W30 SF-CD
RADIATOR COOLANT	1.70 gallons (6.4 liters)	50% ANTI-FREEZE

SERVICE NOTES:
- Change engine oil, hydraulic oil and both oil filters FIRST 50 hours of operation.
- Refer to engine manual for engine maintenance.

2722063

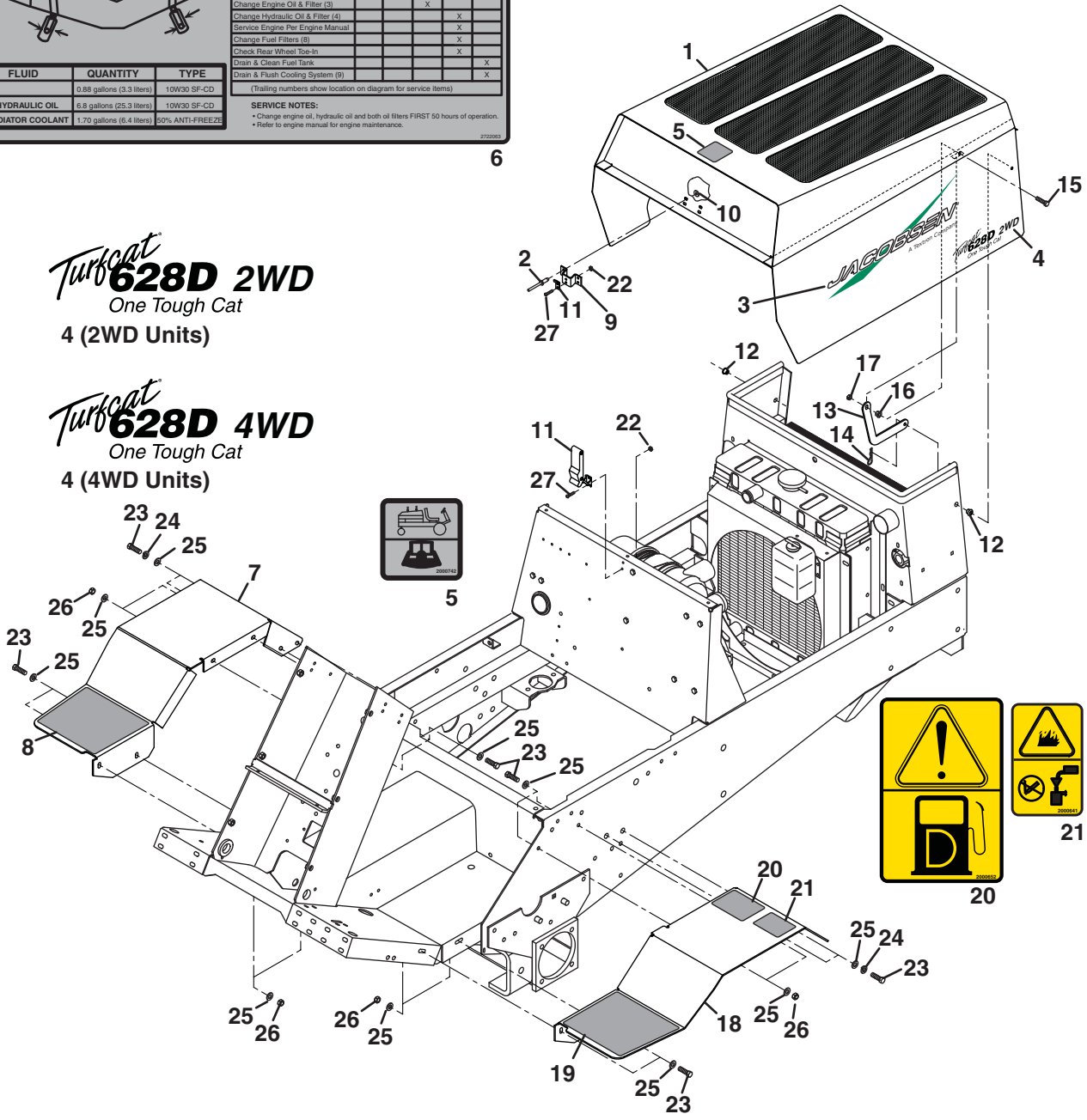
6

Turfcat 628D 2WD
One Tough Cat

4 (2WD Units)

Turfcat 628D 4WD
One Tough Cat

4 (4WD Units)

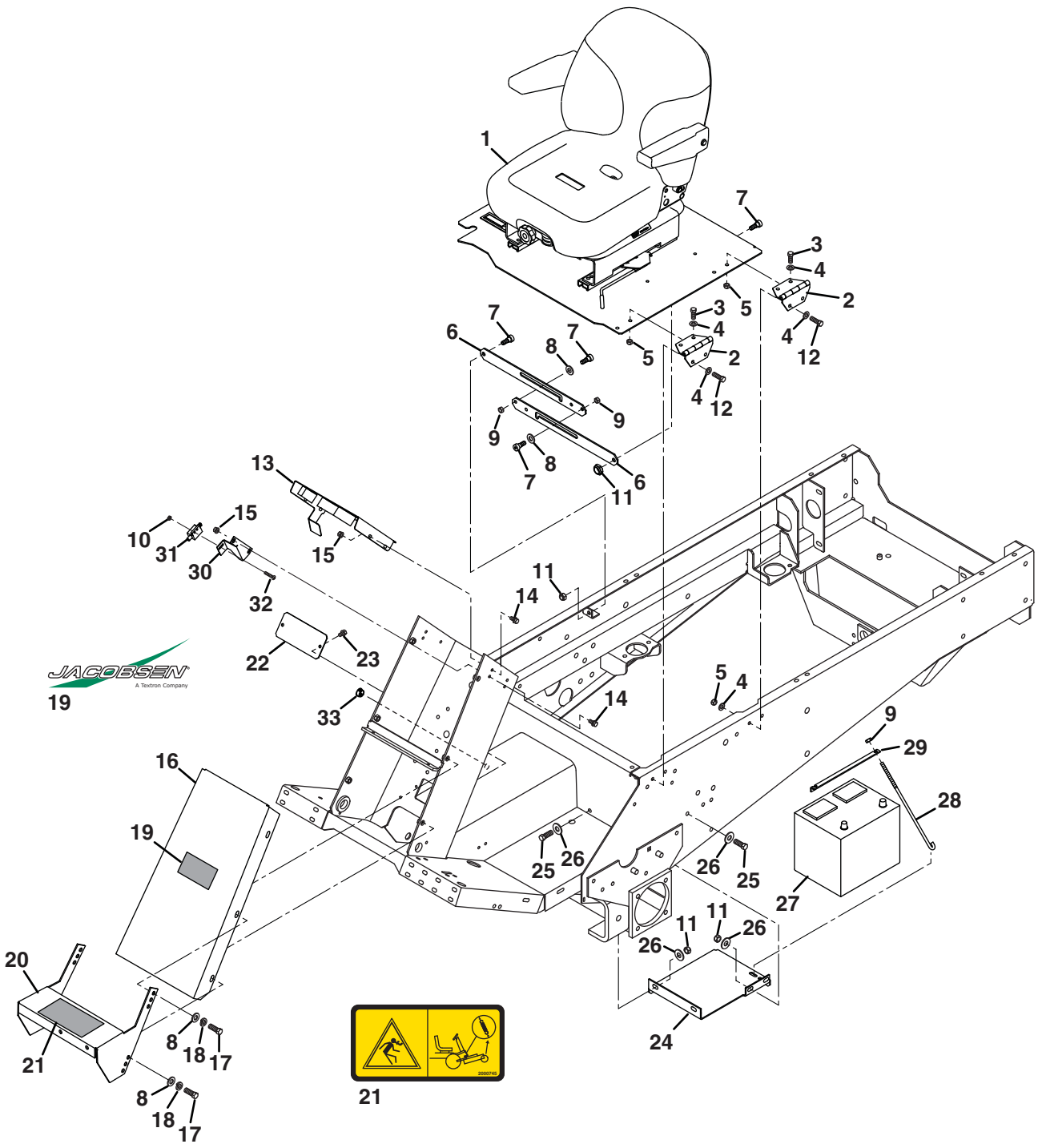


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2721979	1	Hood	
	64018-20	12	• Carriage Bolt, 1/4-20	Not Shown
	445784	12	• Nut, 1/4-20 Whizlock Flange	Not Shown
	463603	16	• Pop Rivet, IFI #44	Not Shown
	463604	5	• Rivet, 5/16 x 1-1/4” Rouand Head	
2	64215-05	8	• Pop Rivet, IFI #64	4 Not Shown
3	4179663	1	• Decal, Jacobsen	
4	4125286	2	• Decal, Turfcat 2WD	Used on 69168 Only
4	4126532	2	• Decal, Turfcat 4WD	Used on 69169 Only
5	2000742	1	• Decal, Air Intake	
6	2722063	1	• Decal, Service	Located under hood
7	2721970	1	Right Side Fender	
8	2198137	1	• Mat, Right Side Fender	
9	2192248.7	1	Bracket, Latch Post	
10	457023	4	Flat Washer	
11	366883	1	Latch, Hood	
12	118047-06	2	Bushing, 3/8” Flip Lock	
13	2192571.7	2	Stop, Hood Pivot	
14	460336	2	Hair Pin, 3/32 x 1-3/16	
15	400112	2	Screw, 1/4-20 x 1” Hex Head	
16	445784	2	Nut, 1/4-20 Whizlock Flange	
17	444851	2	Locknut, 1/4-20	
18	2721969	1	Left Side Fender	
19	2198136	1	• Mat, Left Side Fender	
20	2000641	1	• Decal, Fuel Warning	
21	2000652	1	• Decal, Diesel Fuel	
22	444306	4	Nut, #8-32 Hex	
23	361005	12	Screw, M8-1.25 x 25 mm Hex Head	
24	446136	4	Lockwasher, 5/16 Heavy	
25	450400	20	Flat Washer, 1/4	
26	450378	8	Nut, M8-1.25 Nylock Nut	
27	402058	4	Screw, #8-32 x 1/2” Machine Screw	

> Change from previous revision

3.1 Front Body

Serial No. All

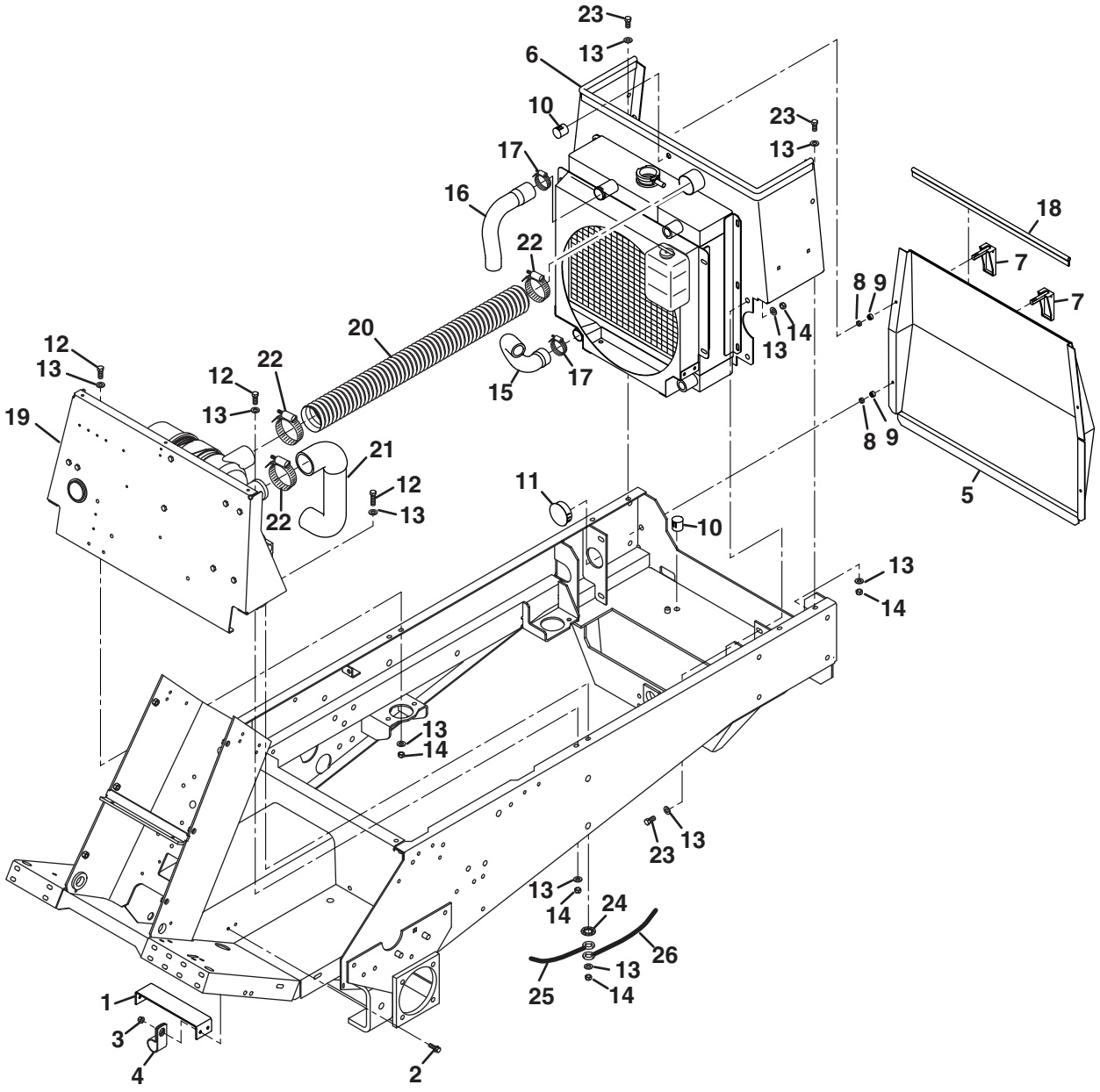


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	REF	1	Seat Pan Assembly	See 5.1
2	2208058.7	2	Hinge, Seat Plate	
3	450191	4	Screw, M8-1.25 x 20 mm Hex Head	
4	450400	12	Flat Washer, M8	
5	450378	8	Nut, M8-1.25 Nylock	
6	2202118.7	2	Support, Seat	
7	434071	4	Shoulder Bolt, 5/16-18	
8	453011	8	Flat Washer, 3/8	
9	445816	4	Locknut, 5/16	
10	444310	2	Nut, #10-24 Hex	
11	450379	6	Nut, M10-1.5 Nylock	
12	450192	4	Screw, M8-1.25 x 25 mm Hex Head	
13	REF	1	Instrument Panel	See 6.1
14	403753	4	Screw, 1/4-20 x 1/2” Hex Flange	
15	445784	4	Nut, 1/4-20 Whizlock Flange	
16	2192669.6	1	Steering Tower Cover	
17	400262	6	Screw, 3/8-16 x 1” Hex Head	
18	446142	6	Lockwasher, 3/8 Heavy	
19	4179664	1	Emblem, Jacobsen	
20	2196104	1	Spring Bracket	
21	2000745	1	• Decal, Spring Tension	
22	2192220.6	1	Plate, Tower	
23	409953	2	Screw, 1/4-20 x 3/8” Hex Washer	
24	2192472.7	1	Tray, Battery	
25	361619	4	Screw, M10-1.5 x 25 mm Hex Head	
26	452008	4	Flat Washer, 3/8	
27	N/S	1	Battery, BCI 26	
28	806953	2	Rod, Battery Hook	
29	2182427.7	1	Battery Hold Down	
30	2192649.7	1	Mount, PTO Enable Switch	
31	38383	1	Switch, PTO Enable Switch	**REFERENCE SW10, See 47.1**
32	402122	2	Screw, #10-24 x 1” Slotted	
33	48517-01	1	Hole Plug, 3/4”	

> Change from previous revision

4.1 Rear Body

Serial No. All

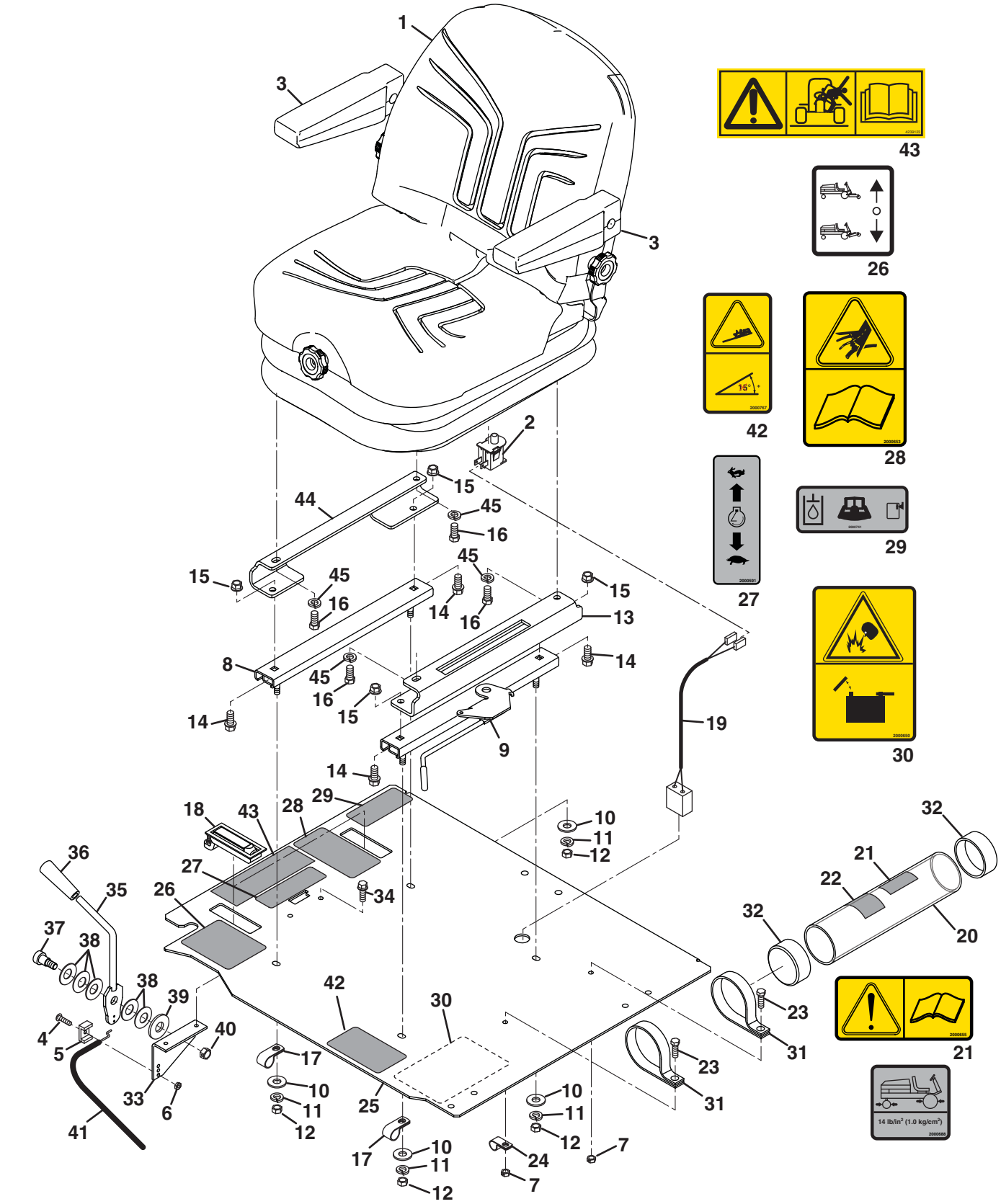


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	192187.7	1	Bracket, Tube Support	
2	548045	4	Screw, 1/4-20 x 3/4” Whizlock Flange	
3	445784	4	Nut, 1/4-20 Whizlock Flange	
4	48228-07	1	Clip, Cable	
5	2202061.6	1	Rear Panel	
6	REF	1	Radiator and Oil Cooler Assembly	See 15.1
7	3002098	4	Latch, Swell	
8	N/S	1	• Nut	
9	N/S	1	• Rubber, Swell	
10	48517-05	2	Plug, Hole	
11	4155480	2	Plug, Hole	
12	363586	4	Screw, M8-1.25 x 20 mm Hex Head	
13	64251-003	18	Flat Washer, M8	
14	64237-05	12	Nut, M8-1.25 Nylock	
15	2721519	1	Lower Radiator Hose	
16	2721511	1	Upper Radiator Hose	
17	108094-01	4	Clamp, 1-3/4” Hose	
18	108194-06	1	Flex Trim	Cut to 21”
19	REF	1	Front Panel Assembly	See 14.1
20	198069-02	1	Hose, Air Cleaner Intake	
21	2721526	1	Hose, Air Cleaner to Engine	
22	326799	4	Clamp, 2-1/2” Hose	
23	361898	8	Screw, M8-1.25 x 16 mm Hex Head	
24	306799	1	Lockwasher, External Tooth	
25	REF	1	Negative Battery Cable	
26	REF	1	Engine Ground Cable	

> Change from previous revision

5.1 Seat Pan

Serial No. 69168 - 1651~1789
Serial No. 69169 - 1651~1929

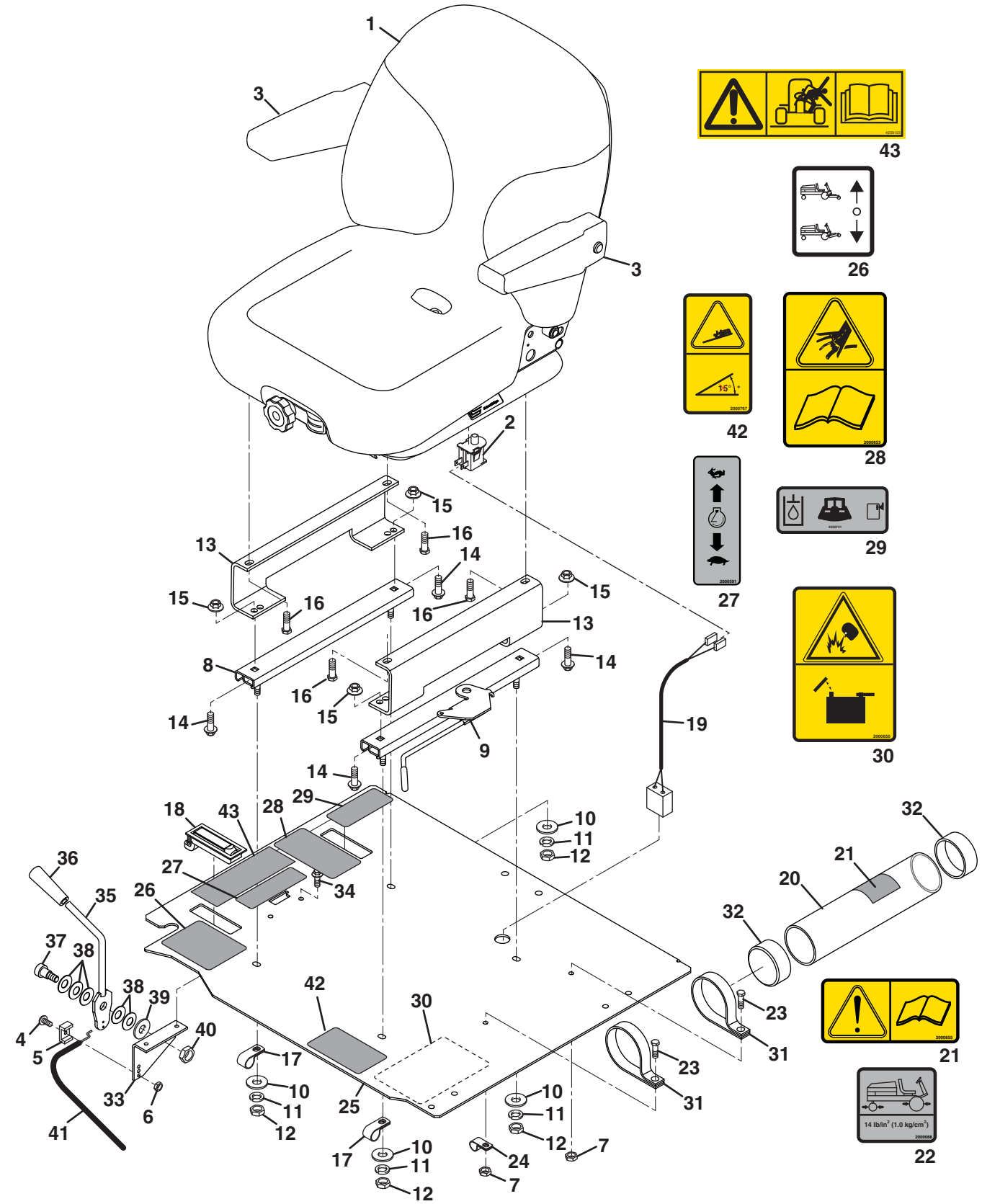


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4182780	1	Seat Assembly Suspension	
2	4210500	1	• Switch, Seat	**REFERENCE SW2, See 47.1**
3	4210685	1	• Arm Rest Kit	
4	407587	1	Screw, #10-24 x 3/4” Machine	
5	22372	1	Cable Clip	
6	444310	1	Nut, #10-24 Hex	
7	445851	2	Locknut, 1/4-20 Hex	
8	523357	1	Adjuster, Slave	
9	523356	1	Adjuster, Latching	
10	452006	4	Flat Washer, 5/16	
11	446134	4	Lockwasher, 5/16	
12	443106	4	Nut, 5/16-18 Hex	
13	4197522	1	Bracket, Left Side Seat Support	
14	3001328	4	Screw, 5/16-18 Hex Flange	
15	445795	4	Nut, 5/16-18 Spiralock Flange	
16	450190	4	Screw, M8-1.25 x 16 mm Hex Head	
17	48228-1A	1	Clamp, 1” I.D.	Throttle Cable Routing
18	2208075	2	Latch, Adjustable Lever Panel	
19	158136	1	Wire Harness, Seat Switch	
20	2306144	1	Document Tube	
21	2000655	1	• Decal, Read Manual	
22	2000688	1	• Decal, Tire Pressure	
23	400108	2	Screw, 1/4-20 x 3/4” Hex Head	
24	482228A	1	Cable Clip	Seat Switch Harness
25	2721881	1	Seat Plate	
26	2000740	1	• Decal, Deck Lift Lever	
27	2000591	1	• Decal, Throttle Lever	
28	2000653	1	• Decal, Hydraulic Leak Warning	
29	2000741	1	• Decal, Hydraulic Reservoir	
30	2000650	1	• Decal, Battery Warning	
31	38542	2	Clamp, Document Tube	
32	38061A	2	Cap, Document Tube	
33	2192254.7	1	Bracket, Throttle	
34	409908	2	Screw, 1/4-20 x 3/4” Thread Cutting	
35	2721527	1	Lever, Throttle	
36	2198109	1	Knob, Throttle	
37	434070	1	Shoulder Bolt, 3/8-16 x 1-1/8”	
38	454033	5	Conical Spring Washer, 1/2”	
39	455013	1	Flat Washer, 1/2	
40	444762	1	Locknut, 3/8-16 Center	
41	148057-01	1	Throttle Cable	
42	2000767	1	Decal, Slope Warning	
43	4239123	1	Decal, Seat Restraint	
44	4197523	1	Bracket, RIght Side Seat Support	
45	450411	4	Lockwasher, M8	

> Change from previous revision

5.2 Seat Pan

Serial No. 69168 - 1790 and Up
Serial No. 69169 - 1930 and Up
Serial No. 69175 - 1651 and Up
Serial No. 69176 - 1651 and Up

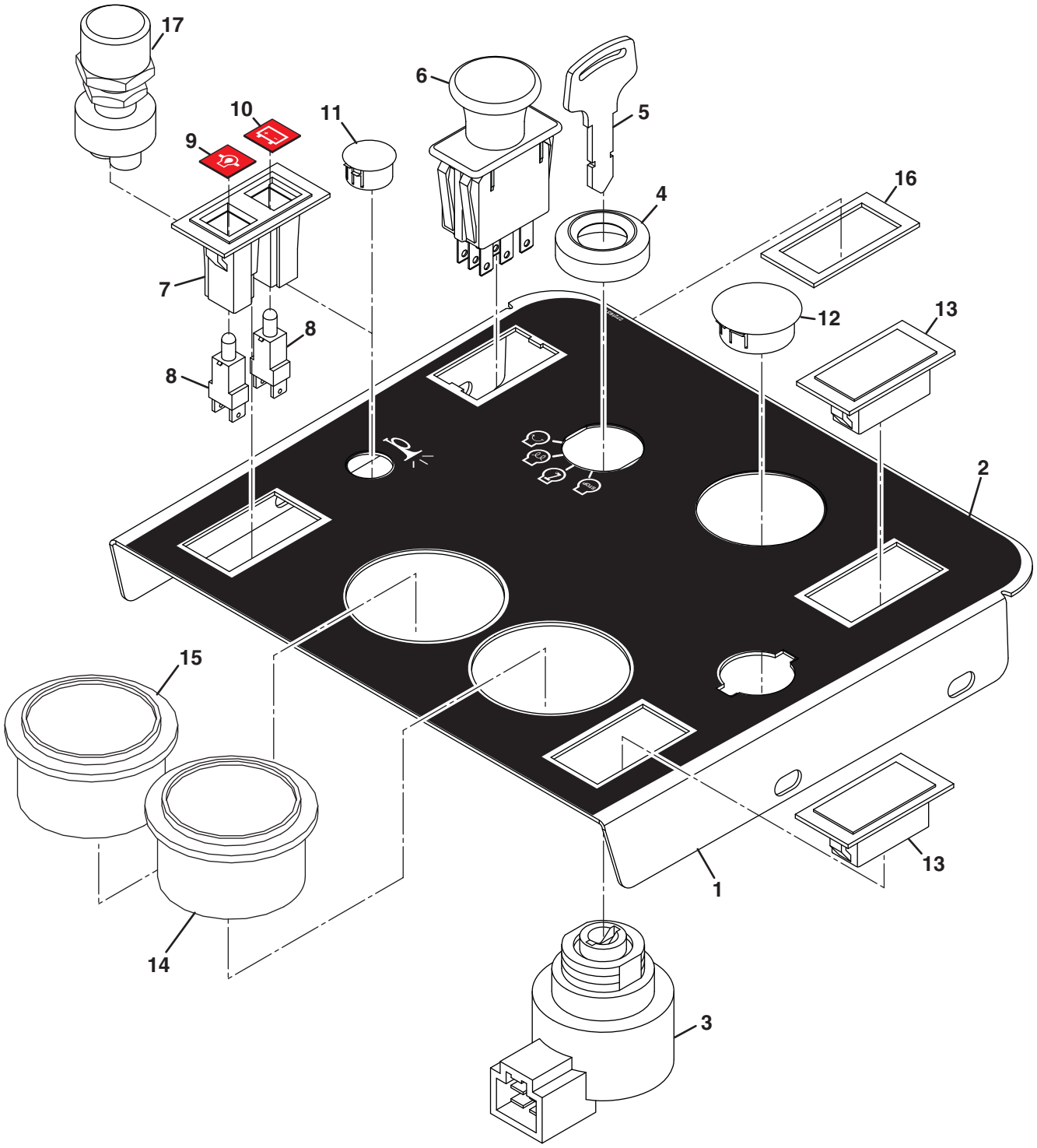


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4139433	1	Seat Assembly Suspension	
2	4139450	1	• Switch, Seat	**REFERENCE SW2, See 47.1**
3	4139436	1	• Arm Rest Kit	
4	64152-49	1	Screw, #10-24 x 3/4” Machine	
5	22372	1	Cable Clip	
6	444310	1	Nut, #10-24 Hex	
7	64151-8	2	Locknut, 1/4-20 Hex	
8	523357	1	Adjuster, Slave	
9	523356	1	Adjuster, Latching	
10	452006	4	Flat Washer, 5/16	
11	446134	4	Lockwasher, 5/16	
12	443106	4	Nut, 5/16-18 Hex	
13	4139453	2	Bracket, Seat Support	
14	3001328	4	Screw, 5/16-18 Hex Flange	
15	445795	4	Nut, 5/16-18 Spiralock Flange	
16	409812	4	Screw, 5/16-18 x 3/4” Thread Cutting	
17	48228-1A	1	Clamp, 1” I.D.	Throttle Cable Routing
18	2208075	2	Latch, Adjustable Lever Panel	
19	158136	1	Wire Harness, Seat Switch	
20	2306144	1	Document Tube	
21	2000655	1	• Decal, Read Manual	
22	2000688	1	• Decal, Tire Pressure	
23	400108	2	Screw, 1/4-20 x 3/4” Hex Head	
24	482228A	1	Cable Clip	Seat Switch Harness
25	2721881	1	Seat Plate	
26	2000740	1	• Decal, Deck Lift Lever	
27	2000591	1	• Decal, Throttle Lever	
28	2000653	1	• Decal, Hydraulic Leak Warning	
29	2000741	1	• Decal, Hydraulic Reservoir	
30	2000650	1	• Decal, Battery Warning	
31	38542	2	Clamp, Document Tube	
32	38061A	2	Cap, Document Tube	
33	2192254.7	1	Bracket, Throttle	
34	64197-002	2	Screw, 1/4-20 x 3/4” Thread Cutting	
35	2721527	1	Lever, Throttle	
36	2198109	1	Knob, Throttle	
37	64166-17	1	Shoulder Bolt, 3/8-16 x 1-1/8”	
38	64209-01	5	Conical Spring Washer, 1/2”	
39	367314	1	Flat Washer, 1/2	
40	444762	1	Locknut, 3/8-16 Center	
41	148057-01	1	Throttle Cable	
42	2000767	1	Decal, Slope Warning	
43	4239123	1	Decal, Seat Restraint	

> Change from previous revision

6.1 Instrument Panel

Serial No. All

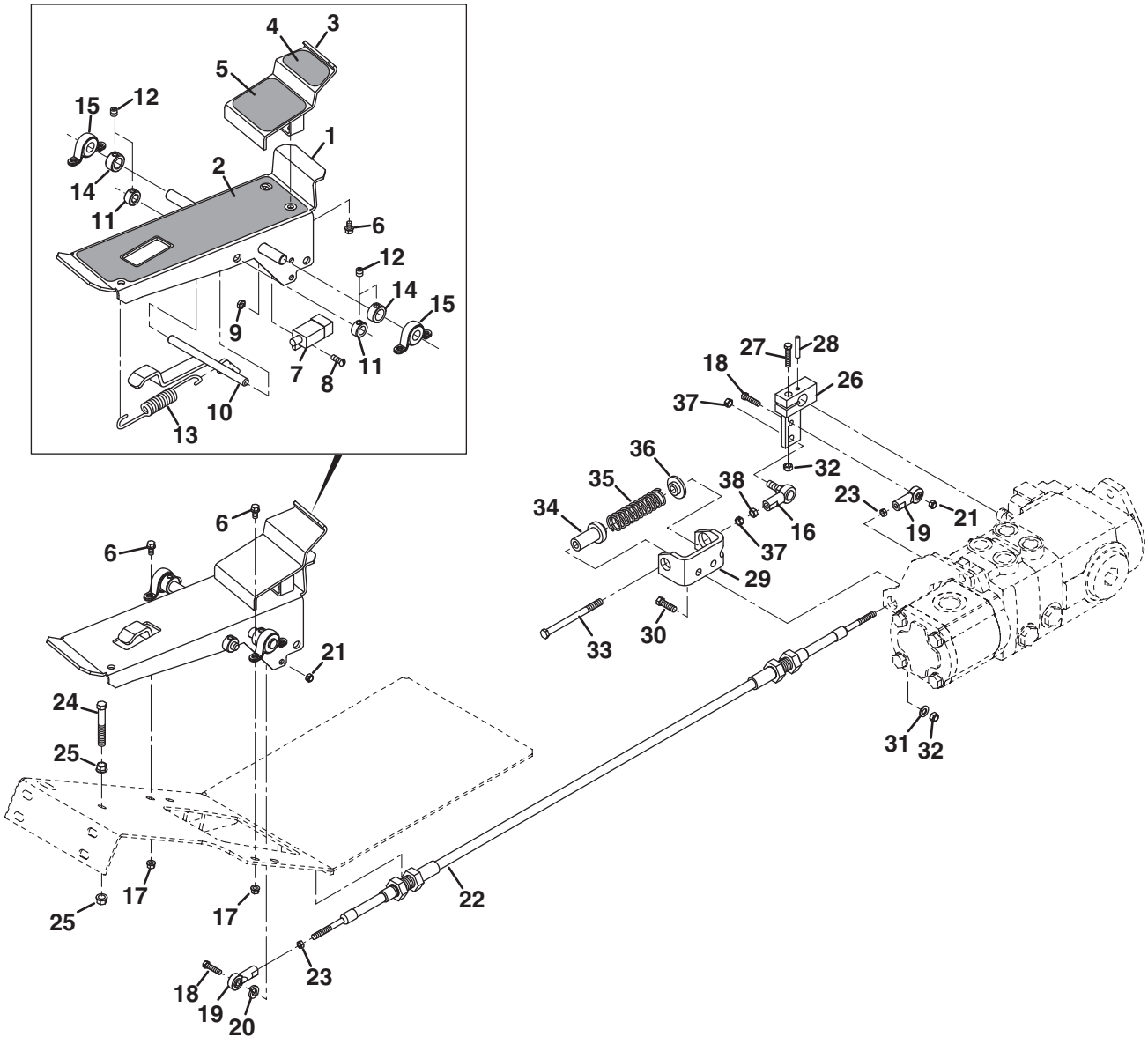


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2721878	1	Instrument Panel	
2	2721631	1	• Decal, Instrument Panel	
3	2810269	1	Ignition Switch	**REFERENCE SW1, See 47.1**
4	NS	1	• Nut, Ignition Switch	
5	2811020	1	• Key, Ignition Switch	
6	4174684	1	Switch, PTO	**REFERENCE SW5, See 47.1**
7	2198089	1	Lamp Holder	
8	178092-22	2	• Lamp	**REFERENCE L1 and L2, See 47.1**
9	188015	1	Oil Pressure Lens	
10	2198088	1	Battery Lens	
11	48517-02	1	Hole Plug, 5/8”	
12	48517	1	Hole Plug, 1”	
13	178092-13	2	Switch Hole Plug	
14	148032	1	Fuel Gauge	**REFERENCE U4, See 47.1**
15	148269	1	Temperature Gauge	**REFERENCE U3, See 47.1**
16	2188178	1	Switch Retainer	
17	148061	1	Horn Switch (Optional Kit)	**REFERENCE SW8, See 47.1**

> Change from previous revision

7.1 Traction Pedal and Linkage

Serial No. All

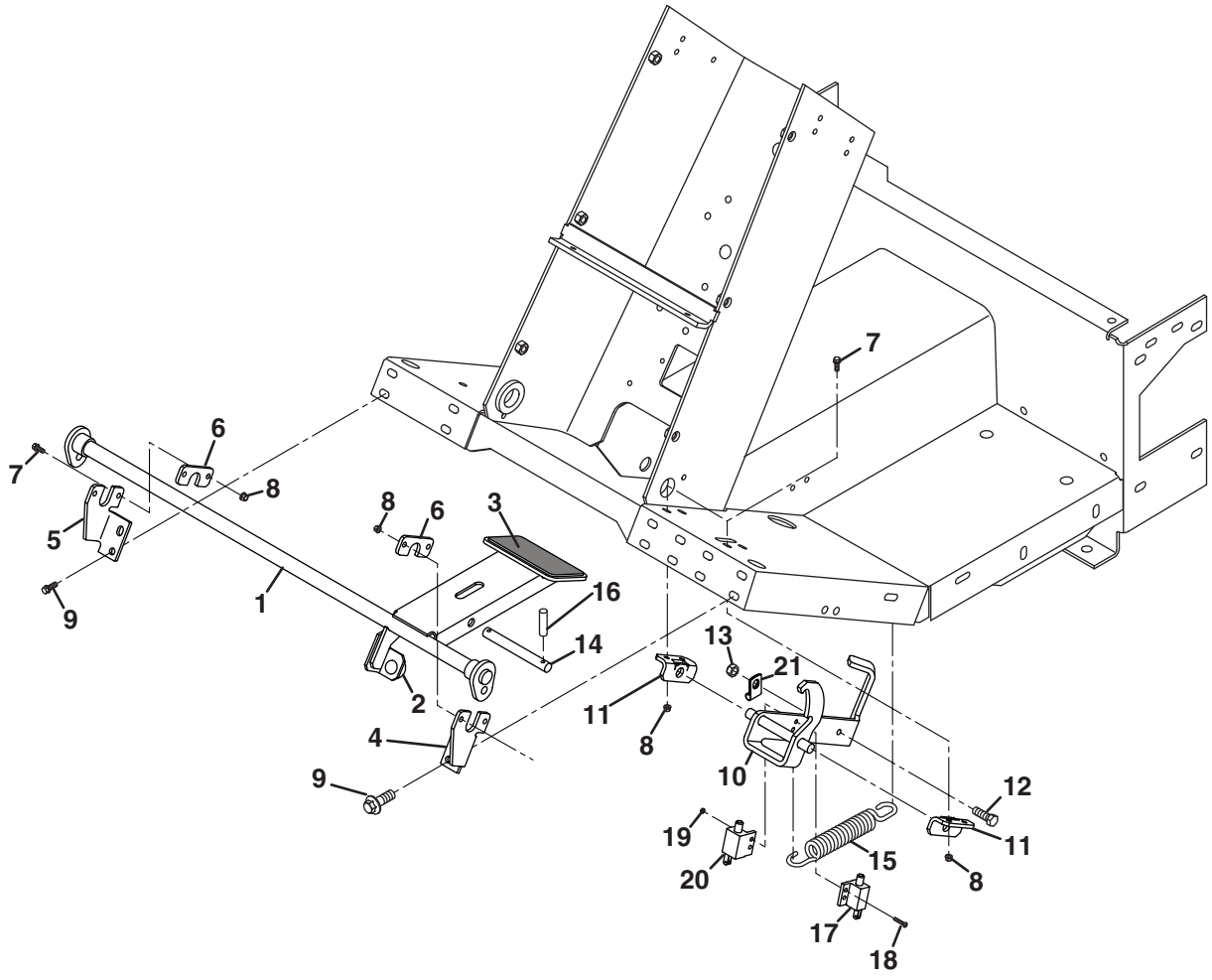


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4118926	1	Traction Pedal	
2	4118925	1	• Pad, Traction	
3	4114282	1	Heel Support	
4	4114284	1	• Pad, Traction	
5	48013-06A	1	• Pad, Traction	
6	403753	6	Screw, 1/4-20 x 1/2 Hex Flange	
7	108208	1	Switch, Neutral	**REFERENCE SW3, See 47.1**
8	402118	2	Screw, #10-24 x 1/2” Machine	
9	444310	2	Nut, #10-24 Hex	
10	4114249	1	Neutral Control	
11	48428	2	Collar, 3/8” Shaft	
12	415510	4	Set Screw, 1/4-20 x 1/4”	
13	48429	1	Spring, Extension	
14	43067A	2	Collar, 1/2” Shaft	
15	4117819	2	Bearing, 1/2” Pillow Block	
16	831586	1	Ball Joint, 5/16-24	
17	445784	4	Nut, 1/4-20 Whizlock Flange	
18	400112	2	Screw, 1/4-20 x 1” Hex Head	
19	128079	2	Rod End, 1/4-28 Female	
20	446130	1	Lockwasher, 1/4	
21	445770	2	Locknut, 1/4-20 Nylon	
22	128089-02	1	Control Cable, 37-1/2”	
23	443104	2	Nut, 1/4-28 Hex	
24	400274	1	Screw, 3/8-16 x 2-1/2” Hex Head	
25	445783	2	Nut, 3/8-16 Whizlock Flange	
26	2196133.7	1	Control Arm	
27	450015	1	Screw, M8-1.25 x 35 mm Hex Head	
28	461385	1	Roll Pin, 3/16 x 1-1/4”	
29	2192444.7	1	Bracket, Neutral Control	
30	450192	2	Screw, M8-1.25 x 25 mm Hex Head	
31	450400	2	Washer, M8	
32	450378	3	Locknut, M8-1.25 Nylon	
33	400250	1	Screw, 5/16-24 x 5” Hex Head	
34	2193046	1	Bushing	
35	2198279	1	Spring, Compression	
36	123032	1	Bushing	
37	444754	2	Locknut, 5/16-24 Center	
38	443108	1	Nut, 5/16-24 Hex	

> Change from previous revision

8.1 Brake Pedal

Serial No. All

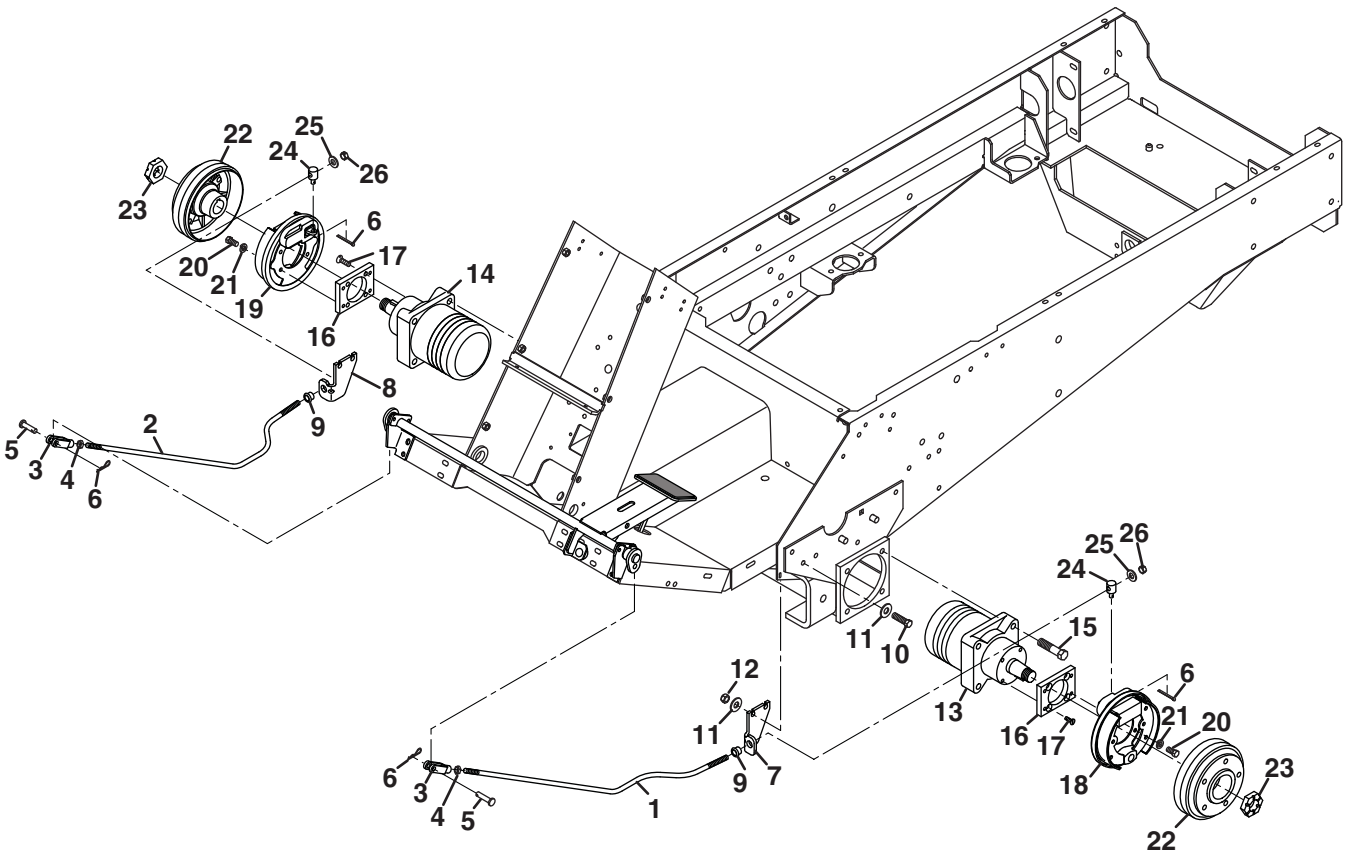


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2721907	1	Brake Pedal	
2	810149	1	• Rubber Bumper	
3	2198129	1	• Brake Pedal Mat	
4	2192308.7	1	Support, Left Side Brake Shaft	
5	2192310.7	1	Support, RIght Side Brake Shaft	
6	2192361.7	2	Clamp, Brake Support	
7	548045	8	Screw, 1/4-20 x 3/4” Whizlock Flange	
8	445784	8	Nut, 1/4-20 Whizlock Flange	
9	548604	7	Screw, 5/16-18 x 3/4” Whizlock Flange	
10	2722201.7	1	Parking Brake Lever	
11	2192351.7	2	Bracket, Brake Lever	
12	450170	1	Screw, M6-1 x 16 mm Hex Head	
13	450377	1	Nut, M6-1 Hex Nyloc	
14	143011	1	Link, Pedal	
15	840476	1	Spring, Tension	
16	461359	2	Roll Pin, 1/8 x 3/4”	
17	38382	1	Parking Brake Switch, NO	**REFERENCE SW5, See 47.1**
18	402122	2	Screw, #10-24 x 1” Slotted	
19	444310	2	Nut, #10-24 Hex	
20	38382	1	Parking Brake Interlock Switch, NO	**REFERENCE SW11, See 47.1**
21	48228-07	1	Clip, Cable	

> Change from previous revision

9.1 Front Wheel Motor and Brakes

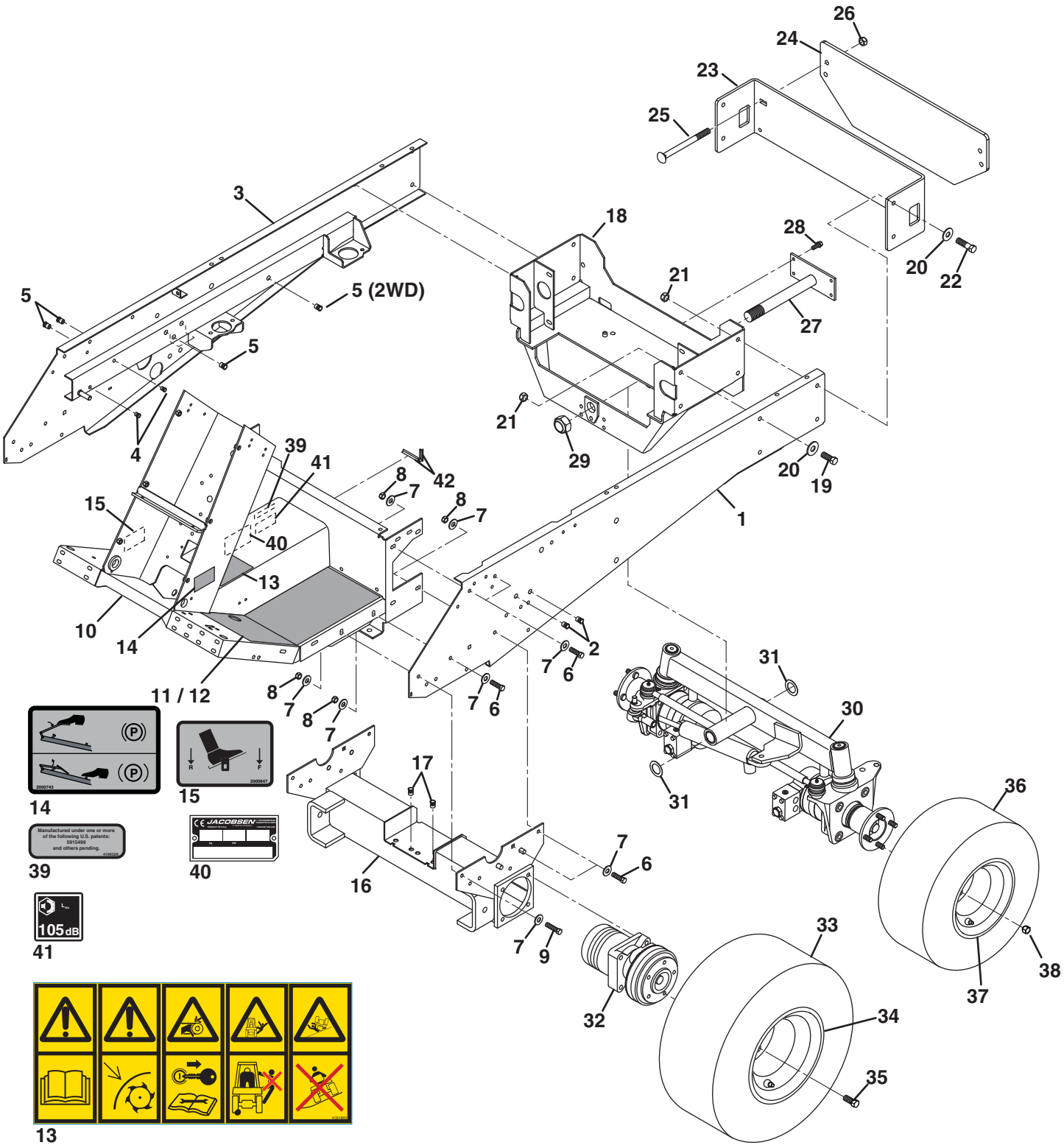
Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2721672	1	Rod, Left Side Brake	
2	2721813	1	Rod, Right Side Brake	
3	38020-01	2	Clevis Yoke, 3/8” Plate	
4	443112	2	Nut, 3/8-24 Hex	
5	461465	2	Clevis Pin, 3/8 x 1-1/8”	
6	460336	4	Hair Pin, 3/32 x 1-3/16”	
7	2721676.7	1	Bracket, Left Side Brake Rod	
8	2721852.7	1	Bracket, Right Side Brake Rod	
9	118047-04	2	Bushing, 1/2” Fliplock	
10	450215	4	Screw, M10-1.5 x 30 mm Hex Head	
11	452008	8	Flat Washer, M10	
12	450379	4	Nut, M10-1.5 Nylock	
13	2721320-01	1	Left Side Wheel Motor	
14	2721534-01	1	Right Side Wheel Motor	2WD Units
14	2721320-01	1	Right Side Wheel Motor	4WD Units
	148138	1	• Seal Kit	
	64164-08	1	• Shaft Key	
15	400446	8	Screw, 1/2-20 x 2” Hex Head	
16	2722335	2	Adapter, Motor	
17	403752	8	Screw, 5/16-18 x 1” Flat Head	
18	1003400	1	Left Side Brake Assembly	
19	1003399	1	Right Side Brake Assembly	
	5003192	1	• Shoe Repair Kit	
	5003193	1	• Spring Repair Kit	
20	400182	8	Screw, 5/16-18 x 5/8” Hex Head	
21	446136	8	Lockwasher, 5/16	
22	2721275	2	Brake Drum	
23	64025-35	2	Nut, 1-1/8 Hex	
24	3007796	2	Guide, Brake	
25	453011	2	Flat Washer, 3/8	
26	800531	2	Locknut, 3/8-24	

> Change from previous revision

10.1 Frame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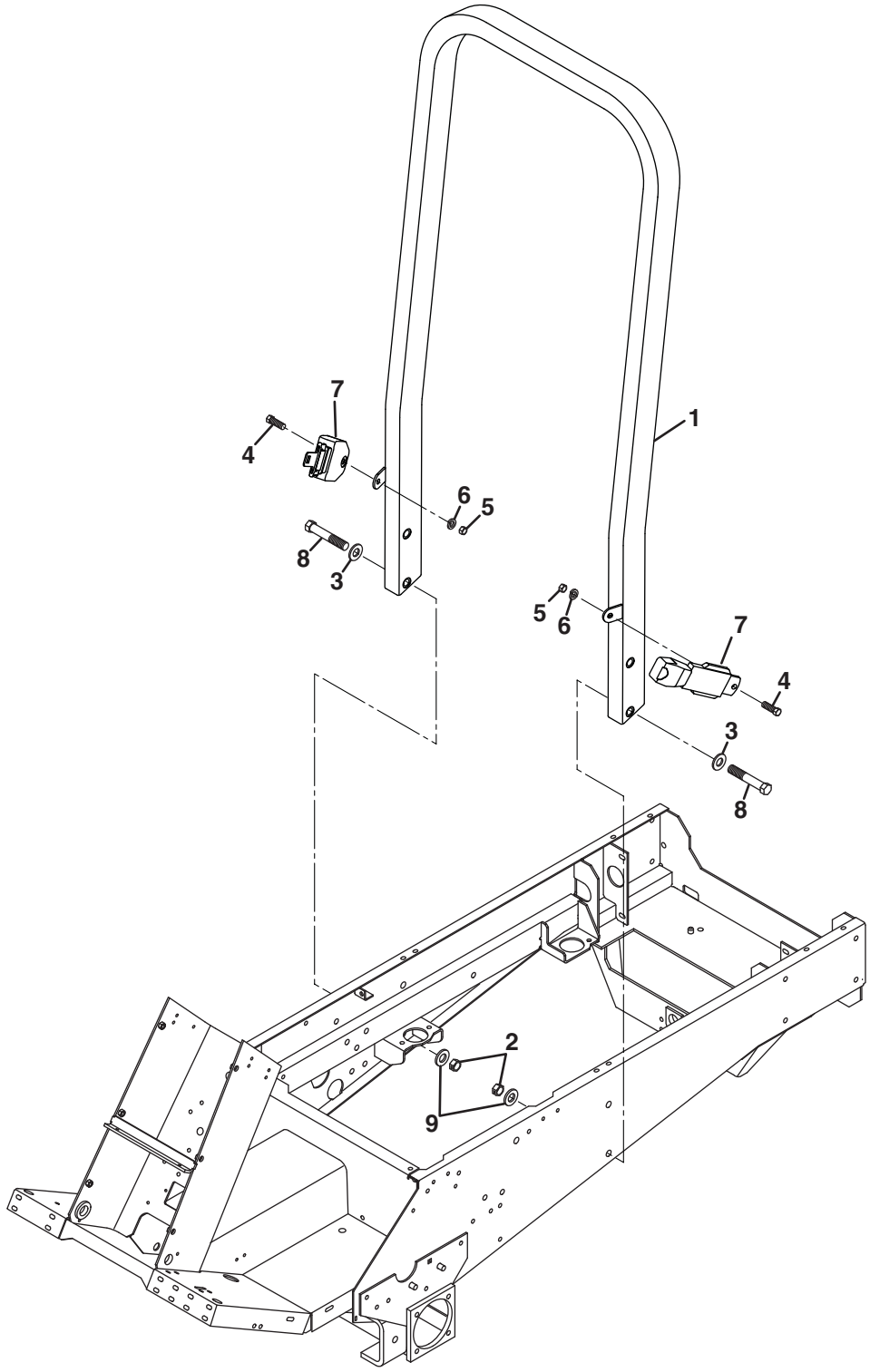
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2721873	1	Frame Rail, Left Side	
● 2	450359	3	• Insert, M8-1.25	Use Insert Tool 2196247
3	2721872	1	Frame Rail, Right Side	
● 4	450359	6	• Insert, M8-1.25	Use Insert Tool 2196247
◆ 5	450367	2	• Insert, M6-1	Use Insert Tool 2196246
6	450215	10	Screw, M10-1.5 x 30 mm Hex Head	
7	452008	24	Flat Washer, M10	
8	450379	12	Locknut, M10-1.5 Nylon	
9	450029	2	Screw, M10-1.5 x 35 mm Hex Head	
10	2721874	1	Front Frame	
11	148086	1	• Mat, Left Side Floor	
12	148085	1	• Mat, Right Side Floor	Not Shown
13	4181865	1	• Decal, Main Warning	
14	2000743	1	• Decal, Brake Pedal	
15	2000647	1	• Decal, Forward/Reverse	
16	4113467	1	Front Axle	
● 17	450359	2	Insert, M8-1.25	Use Insert Tool 2196247
18	2196132.6	1	Rear Frame	
19	363386	4	Screw, M12-1.75 x 30 mm Hex Head	
20	452010	8	Flat Washer, 1/2	
21	450380	8	Locknut, M12-1.75 Nylon	
22	450048	4	Screw, M12-1.75 x 40 mm Hex Head	
23	2192586.7	1	Rear Bumper	
24	2192304.7	AR	Rear Weight	2WD Qty 11, 4WD Qty 8
25	441693	2	Carriage Bolt, 1/2-13 x 5”	
26	444758	2	Locknut, 1/2-13 Nylon	
27	2206030.7	1	Rear Axle Pivot	
28	409812	4	Screw, 5/16-18 x 3/4 Thread Cutting	
29	445820	1	Nut, 1-1/4-12 Nylock	
30	REF	1	Rear Axle	See 12.1(2WD), or See 13.1 (4WD)
31	361648	2	Thrust Washer	
32	REF	1	Wheel Motor and Brake	See 9.1
	4242522		Wheel and Tire Assembly	
33	4249870	2	• Tire, 23 x 10.5-12 4 Ply Multi Trac	
34	4242523	2	• Rim, 12 x 8.5” with Valve	
35	353914	10	Wheel Bolt, 1/2-20	
	4242525	2	Wheel and Tire Assembly	2WD Units
	4242527	2	Wheel and Tire Assembly	4WD Units
36	4236020	2	• Tire, 18 x 9.5-8 4 Ply Rib Tread	2WD Units
36	4242528	2	• Tire, 18 x 8.5-8 4 Ply Turf Trac	4WD Units
37	4242526	2	• Rim, 8 x 7”	
38	354807	8	Wheel Nut, 1/2-20	
39	4194329	1	Decal, Patent Number	4WD Units Only
40	REF	1	Serial Plate	
41	4117468	1	Decal, 105 dB Sound	
42		AR	Trim, 1/8” Channel Flex	

> Change from previous revision

11.1 ROPS

Straight ROPS

Serial No. 69168 - 1651 ~ 1795
Serial No. 69169 - 1651 ~ 1937



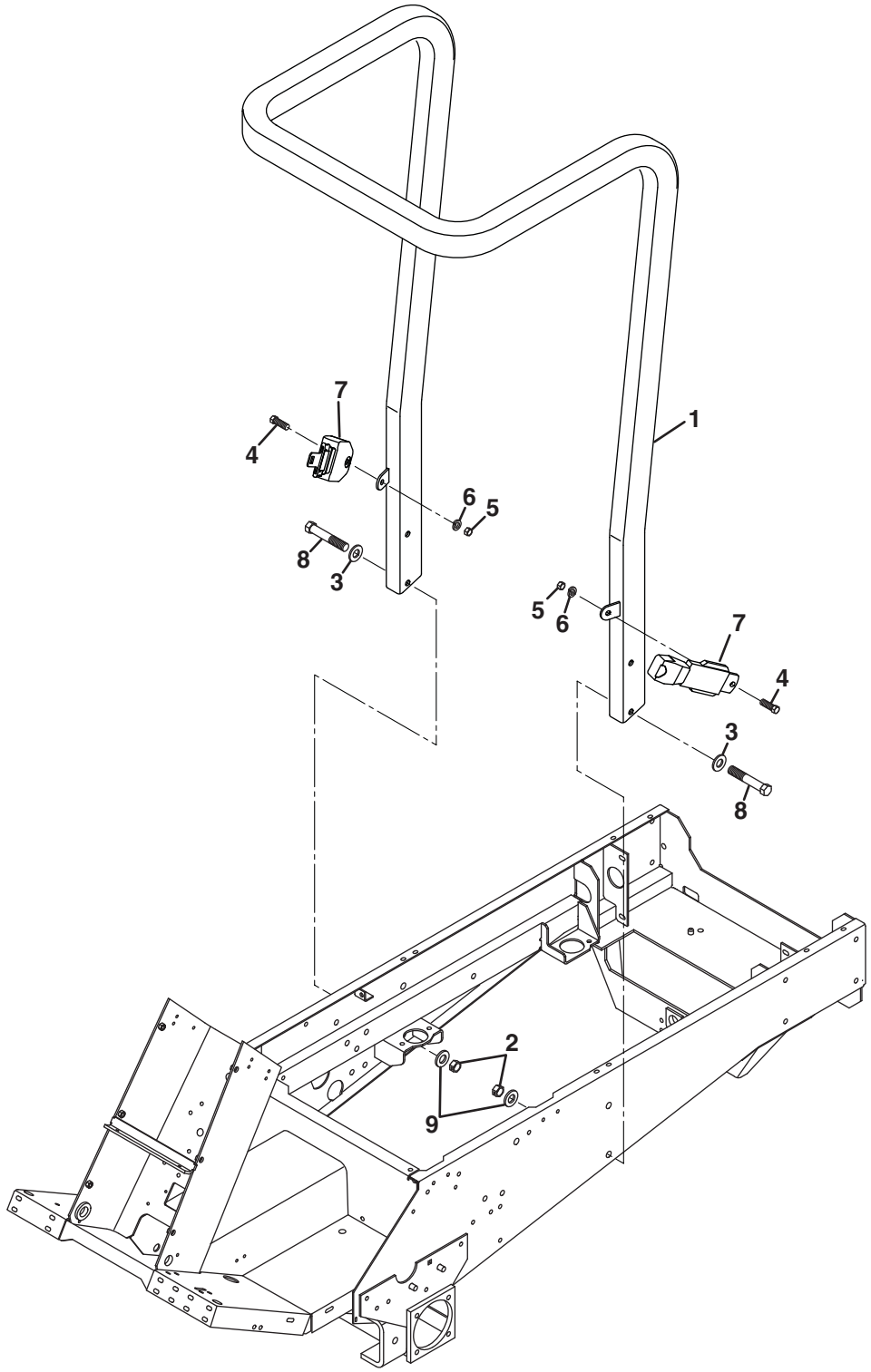
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	970078	1	ROPS	
2	444752	4	• Locknut, 5/8-11 Hex Center	
3	453020	4	• Flat Washer, 5/8	
4	400336	2	• Screw, 7/16-14 x 1-1/4” Hex Head	
5	443114	2	• Nut, 7/16-14 Hex	
6	446148	2	• Lockwasher, 7/16	
7	4164240	1	• Seat Belt	
	NS	1	• • Latching Half	
	N/S	1	• • Retractor Half	
8	400626	4	• Screw, 5/8-11 x 3-1/2” Hex Head	
9	4140094	4	• Flat Washer, 5/8 Hardened	

> Change from previous revision

11.2 ROPS

Bent ROPS

Serial No. 69168 - 1796 and Up
Serial No. 69169 - 1938 and Up
Serial No. 69175 - 1651 and Up
Serial No. 69175 - 1651 and Up

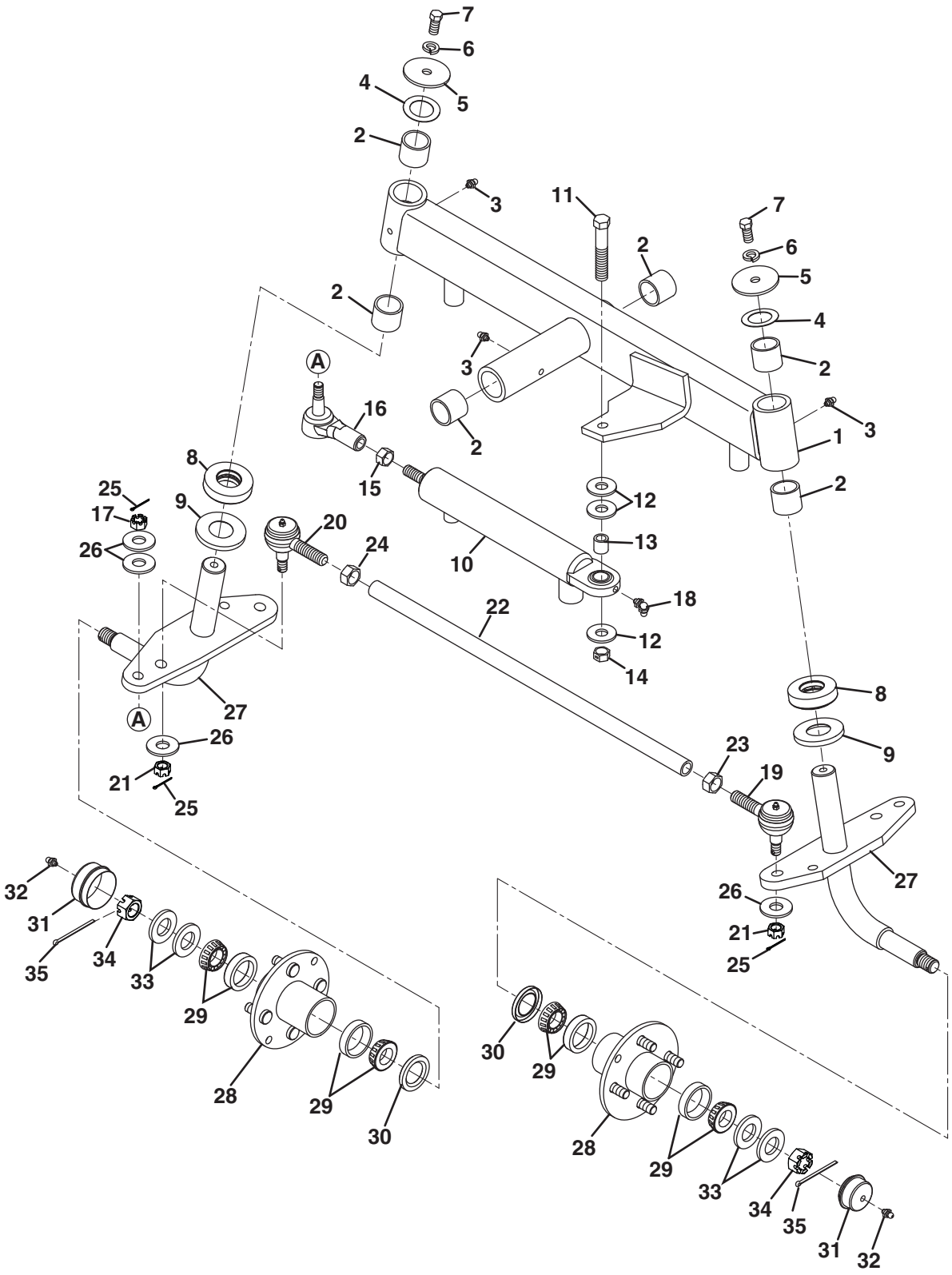


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4254670	1	ROPS	
2	444752	4	Locknut, 5/8-11 Hex Center	
3	453020	4	Flat Washer, 5/8	
4	400336	2	Screw, 7/16-14 x 1-1/4” Hex Head	
5	443114	2	Nut, 7/16-14 Hex	
6	446148	2	Lockwasher, 7/16	
7	4164240	1	Seat Belt	
	NS	1	• Latching Half	
	N/S	1	• Retractor Half	
8	400626	4	Screw, 5/8-11 x 3-1/2” Hex Head	
9	4140094	4	Flat Washer, 5/8 Hardened	

> Change from previous revision

12.1 2WD Steering

Serial No. 69168 - All

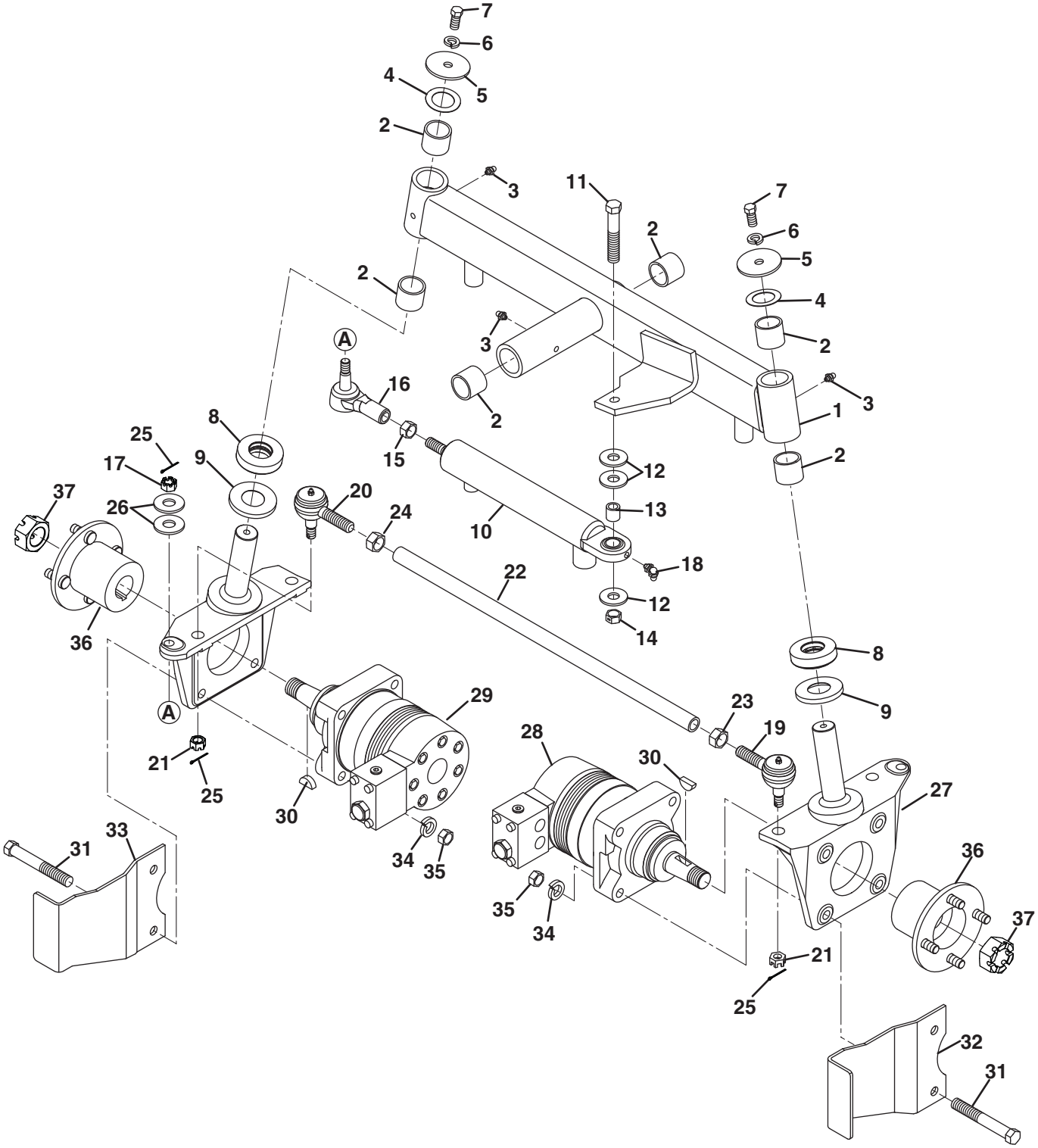


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2196145.6	1	Rear Axle	
2	108003	6	• Bushing	
3	471214	3	Grease Fitting	
4	361648	2	Thrust Washer	
5	809174	2	Flat Washer, 3/8 x 2”	
6	800488	2	Lockwasher, M10	
7	361500	2	Screw, M10-1.5 x 20 mm Hex Head	
8	2721223	2	Thrust Bearing	
9	173042	2	Spacer, Spindle	
10	4118238	1	Steering Cylinder	
	4118238-01	1	• Seal Kit	
11	400416	1	Screw, 1/2-13 x 2-1/2” Hex Head	
12	445057	3	Flat Washer, 1/2	
13	2203049	1	Bushing, Cylinder	
14	800602	1	Locknut, 1/2-13	
15	800490	1	Nut, M14-1.5 Hex	
16	2721183	1	Ball Joint	
	471213	1	• Grease Fitting	
17	445660	1	• Nut, 1/2-20 Slotted Hex	
18	35027N	1	Grease Fitting, 90°	
19	148058-02	1	Ball Joint, Left Tie Rod	Includes Grease Fitting and Nut
20	148058-01	1	Ball Joint, Right Tie Rod	
	471213	1	• Grease Fitting	
21	445660	1	• Nut, 1/2-20 Slotted Hex	
22	2193045.7	1	Tie Rod	
23	445664	1	Nut, 5/8-18 Left Hand Thread Hex	
24	443128	1	Nut, 5/8-18 Hex	
25	460028	3	Cotter Pin, 1/8 x 1”	
26	452012	4	Flat Washer, 1/2	
27	2721185.7	2	Spindle, Rear	
28	48476-A1	2	Hub	
29	500596	2	• Bearing, Cup and Cone	
30	48480	1	• Seal, Grease	
31	48479	1	• Dust Cover	
32	471213	1	• Grease Fitting	
33	453022	4	Flat Washer, 3/4 x 1-5/8”	
34	800743	2	Nut, 3/4-16 Slotted Nut	
35	460032	2	Cotter Pin, 1/8 x 1-1/2”	

> Change from previous revision

13.1 4WD Steering

Serial No. 69169 - All

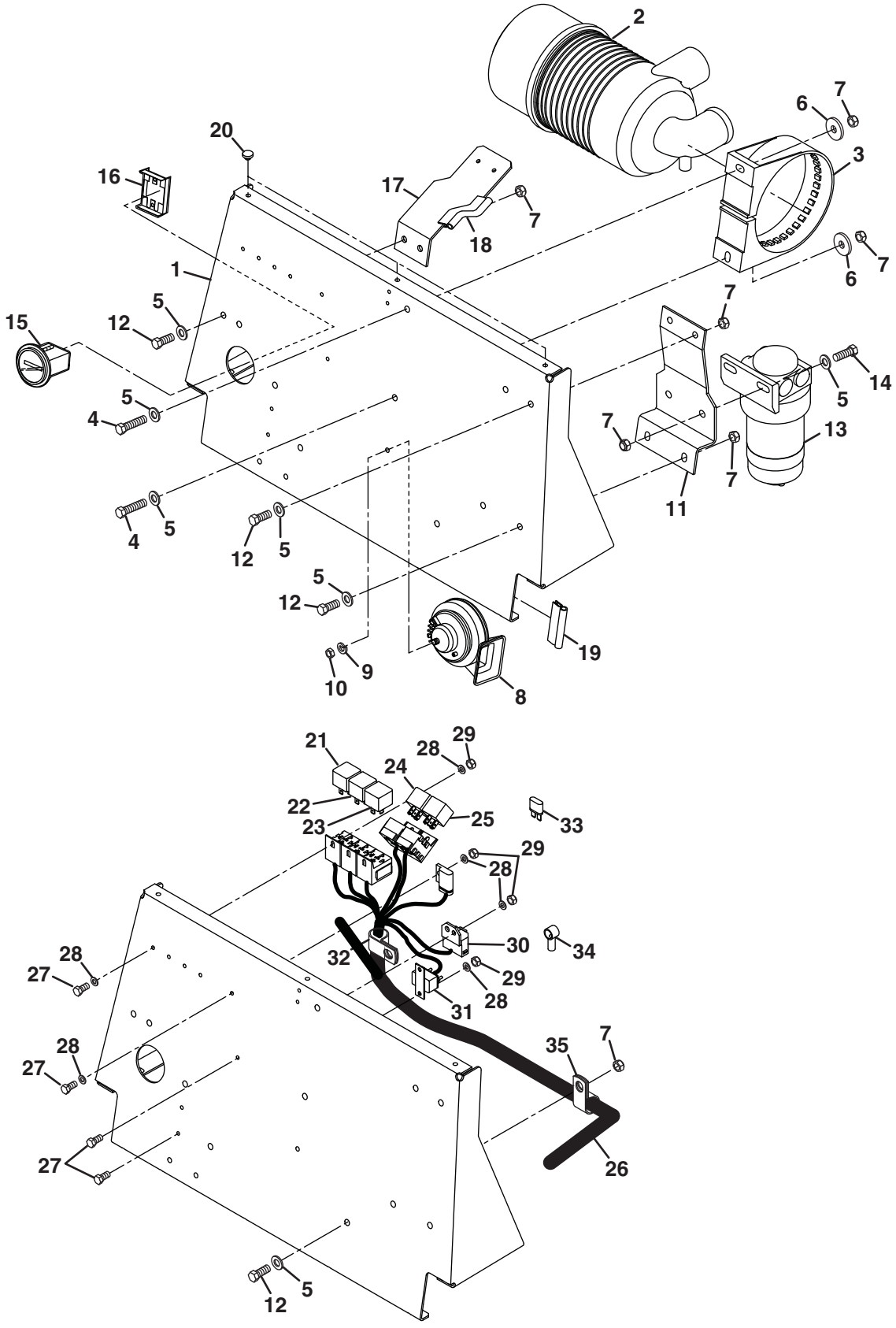


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2196145.6	1	Rear Axle	
2	108003	6	• Bushing	
3	471214	3	Grease Fitting	
4	361648	2	Thrust Washer	
5	809174	2	Flat Washer, 3/8 x 2”	
6	800488	2	Lockwasher, M10	
7	450213	2	Screw, M10-1.5 x 20 mm Hex Head	
8	2721223	2	Thrust Bearing	
9	173042	2	Spacer, Spindle	
10	4118238	1	Steering Cylinder	
	4118238-01	1	• Seal Kit	
11	400416	1	Screw, 1/2-13 x 2-1/2” Hex Head	
12	445057	3	Flat Washer, 1/2	
13	2203049	1	Bushing, Cylinder	
14	800602	1	Locknut, 1/2-13	
15	800490	1	Nut, M14-1.5 Hex	
16	2721183	1	Ball Joint	
	471213	1	• Grease Fitting	
17	445660	1	• Nut, 1/2-20 Slotted Hex	
18	35027N	1	Grease Fitting, 90°	
19	148058-02	1	Ball Joint, Left Tie Rod	Includes Grease Fitting and Nut
20	148058-01	1	Ball Joint, Right Tie Rod	
	471213	1	• Grease Fitting	
21	445660	1	• Nut, 1/2-20 Slotted Hex	
22	2193045.7	1	Tie Rod	
23	445664	1	Nut, 5/8-18 Left Hand Thread Hex	
24	443128	1	Nut, 5/8-18 Hex	
25	460028	3	Cotter Pin, 1/8 x 1”	
26	452012	2	Flat Washer, 1/2	
27	2721146.7	2	Plate, Motor	
28	2721416-01	1	Wheel Motor, Left Rear	See 46.1
29	4114190-01	1	Wheel Motor, Right Rear	See 46.1
30	64162-08	1	• Key, 5/16 x 1” Woodruff	
31	450056	8	Screw, M12-1.75 x 80 mm Hex Head	
32	2722072.7	1	Bracket, Left Side Hose Brace	
33	2722073.7	1	Bracket, Right Side Hose Brace	
34	446154	8	Lockwasher, M12	
35	450326	8	Nut, M12-1.75 Hex	
36	2720828.7	2	Hub, Rear Wheel	
37	64025-35	2	Nut, 1-1/8-18 Hex	

> Change from previous revision

14.1 Front Panel

Serial No. All

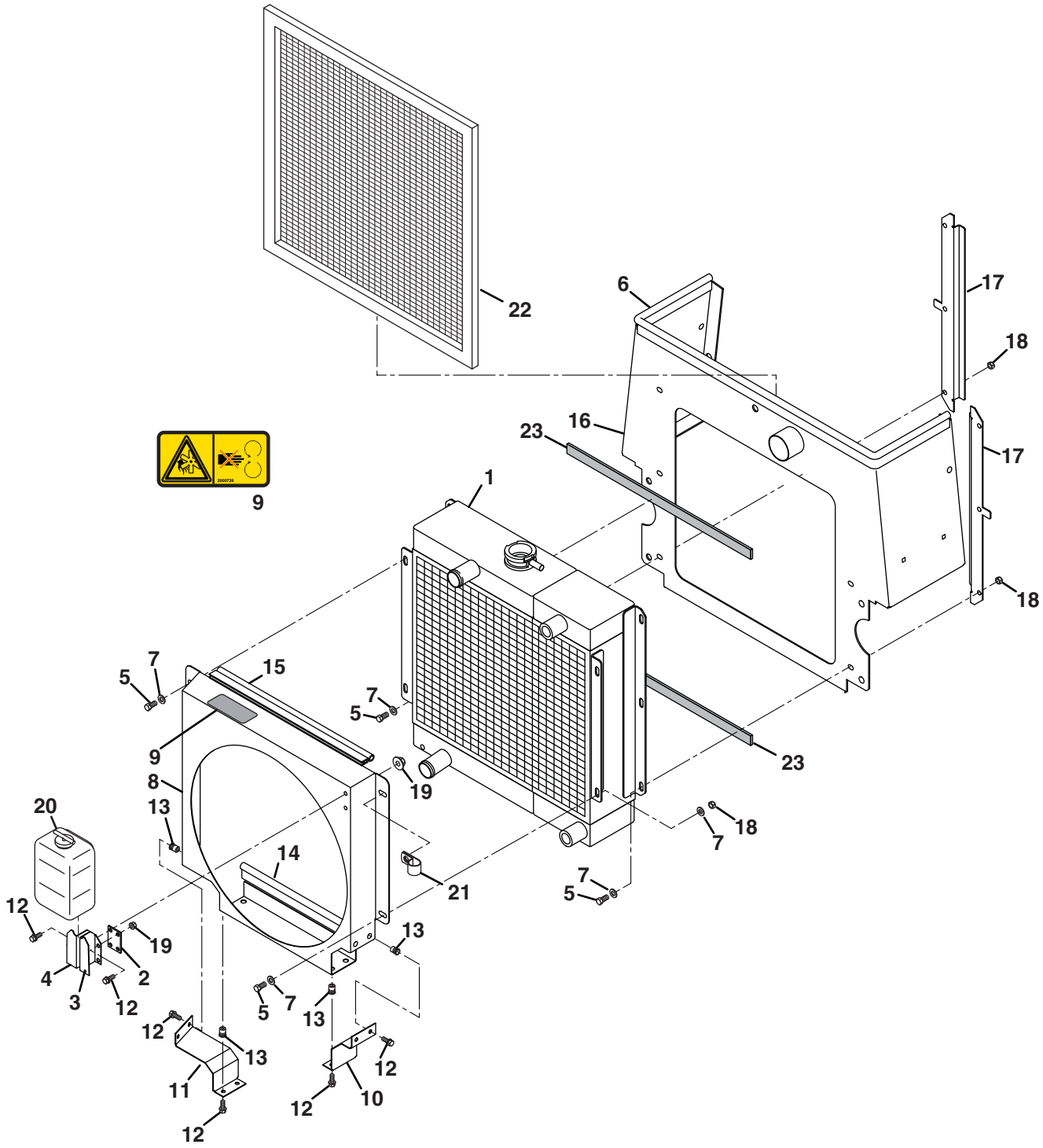


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2721524.7	1	Front Panel	
2	2198147	1	Air Cleaner	
	2198147-01	1	• Air Cleaner Element	
	2198147-02	1	• Valve, Dust Unload	
	2198147-03	1	• Cover	
	2198147-04	2	• Cover Clip	
3	2198297	1	Clamp, Air Cleaner	
4	450016	2	Screw, M8-1.25 x 40 mm Hex Head	
5	450400	14	Flat Washer, M8	
6	809152	2	Flat Washer, M8	
7	450378	12	Nut, M8-1.25 Nylock	
8	886425	1	Horn	**REFERENCE U6, See 47.1**
9	446130	1	Lockwasher, 1/4	
10	361001	1	Nut, M6-1 Hex	
11	2721829.7	1	Bracket, Fuel Manager	
12	363586	8	Screw, M8-1.25 x 20 mm Hex Head	
13	2721539	1	Fuel Manager	
	2721539-01	1	• Fuel Filter Element	
	2721539-02	1	• Fuel Filter Bowl	
	2721539-03	1	• Hand Primer	
14	361005	2	Screw, M8-1.25 x 25 mm Hex Head	
15	48030N	1	Hour Meter	**REFERENCE U2, See 47.1**
16	NS	1	• Bracket, Hour Meter	
17	2722219.7	1	Bracket, Relay Mounting	
18	108194-09	1	Flex Trim	Cut to 3”
19	108194-09	2	Flex Trim	Cut to 2-3/4”
20	2198125	3	Bumper	
21	2722325	1	Interlock Relay	**REFERENCE K1, See 47.1**
22	2722325	1	Seat Delay Module Relay	**REFERENCE K2, See 47.1**
23	2722325	1	Fuel Relay	**REFERENCE K3, See 47.1**
24	2722325	1	Starter Relay	**REFERENCE K4, See 47.1**
25	2722325	1	PTO Disable Relay	**REFERENCE K5, See 47.1**
26	4195820	1	Mower Wire Harness	
27	450149	8	Screw, M5-0.8 x 12 mm	
28	450398	13	Flat Washer, M5	
29	450376	8	Locknut, M5-0.8 Nylock	
30	2188154	1	Module, Seat Delay	**REFERENCE U5, See 47.1**
31	48524	1	Circuit Breaker	**REFERENCE CB1, See 47.1**
32	48228-06	2	Clamp, Harness	
33	148082-20	1	20 Amp Fuse	**REFERENCE F1, See 47.1**
34	2198091	2	Boot, Terminal	Ciruit Breaker Wires
35	48228-10	2	Clamp, Harness	

> Change from previous revision

15.1 Radiator and Oil Cooler

Serial No. All

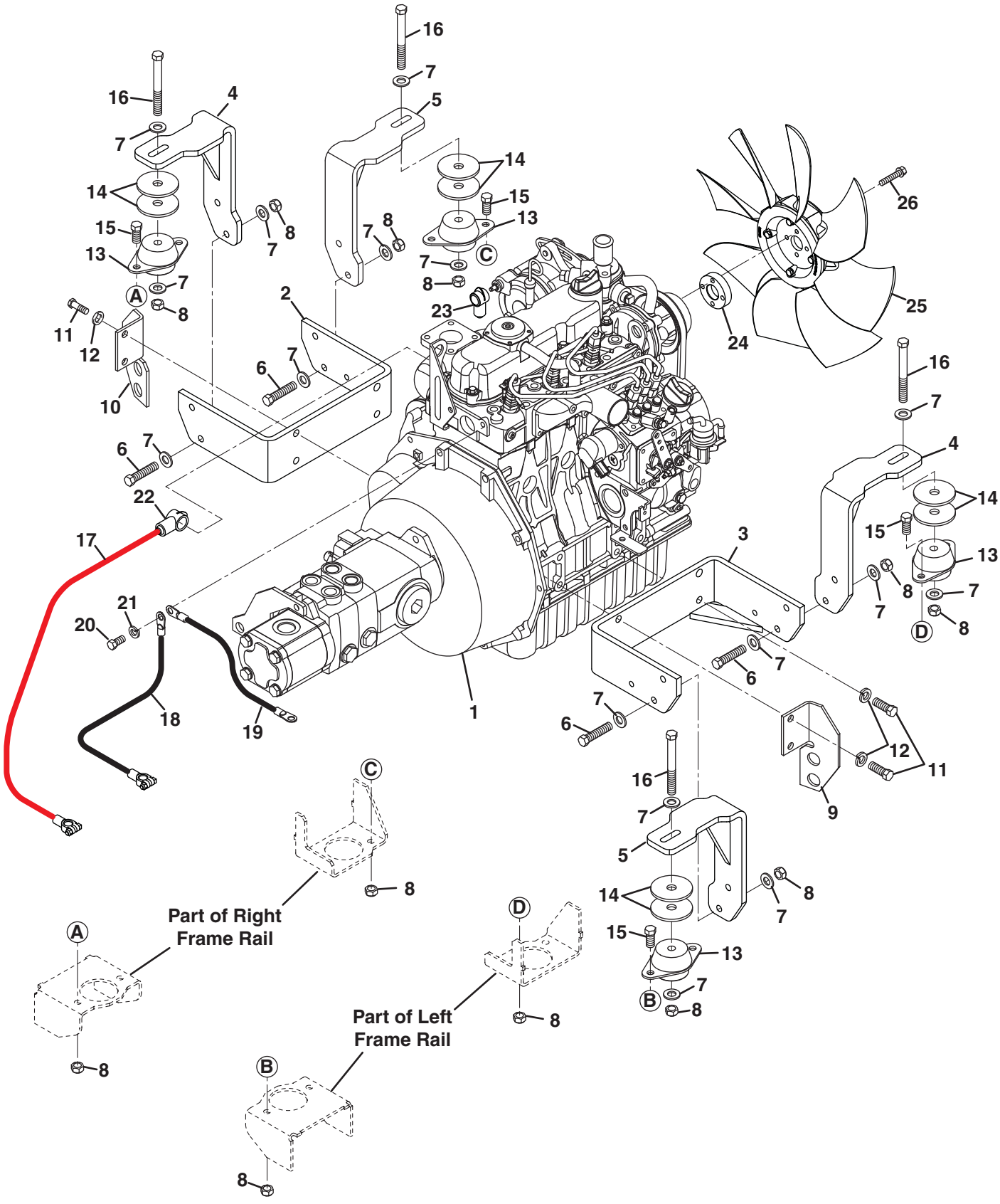


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4186280	1	Radiator and Oil Cooler	
	555867	1	• Radiator Cap	
2	4193021	1	Bracket, Overflow	
3	142350-01	1	Bracket, Left Recovery Tank	
4	142350-02	1	Bracket, Right Recovery Tank	
5	361898	10	Screw, M8-1.25 x 15 mm Hex Head	
6	108194-13	1	Flex Trim	Cut to 39”
7	64251-003	22	Flat Washer, M8	
8	4185120	1	Fan Shroud	
9	2000739	1	• Decal, Fan Warning	
10	4188581	1	Bracket, Left Side Fan Shroud	
11	4188580	1	Bracket, Right Side Fan Shroud	
12	64139-20	8	Screw, M6-1 x 16 mm Whizlock	
13	450367	4	Insert, M6-1 Grip	Use Insert Tool 2196246
14	108194-06	1	Flex Trim	Cut to 13”
15	108194-11	1	Flex Trim	Cut to 16-1/2”
16	4195480.6	1	Radiator Panel	
17	2192441.7	2	Screen Guide	
18	64237-05	12	Nut, M8-1.25 Nylock	
19	64246-01	4	Nut, M6-1 Whizlock Nut	
20	REF	1	Recovery Tank	See Engine Parts Catalog
21	48228-1A	1	Clip, Cable	
22	2198175	1	Screen	
23	38471-06	2	Foam, Closed Cell	

> Change from previous revision

16.1 Engine Mounting

Serial No. All

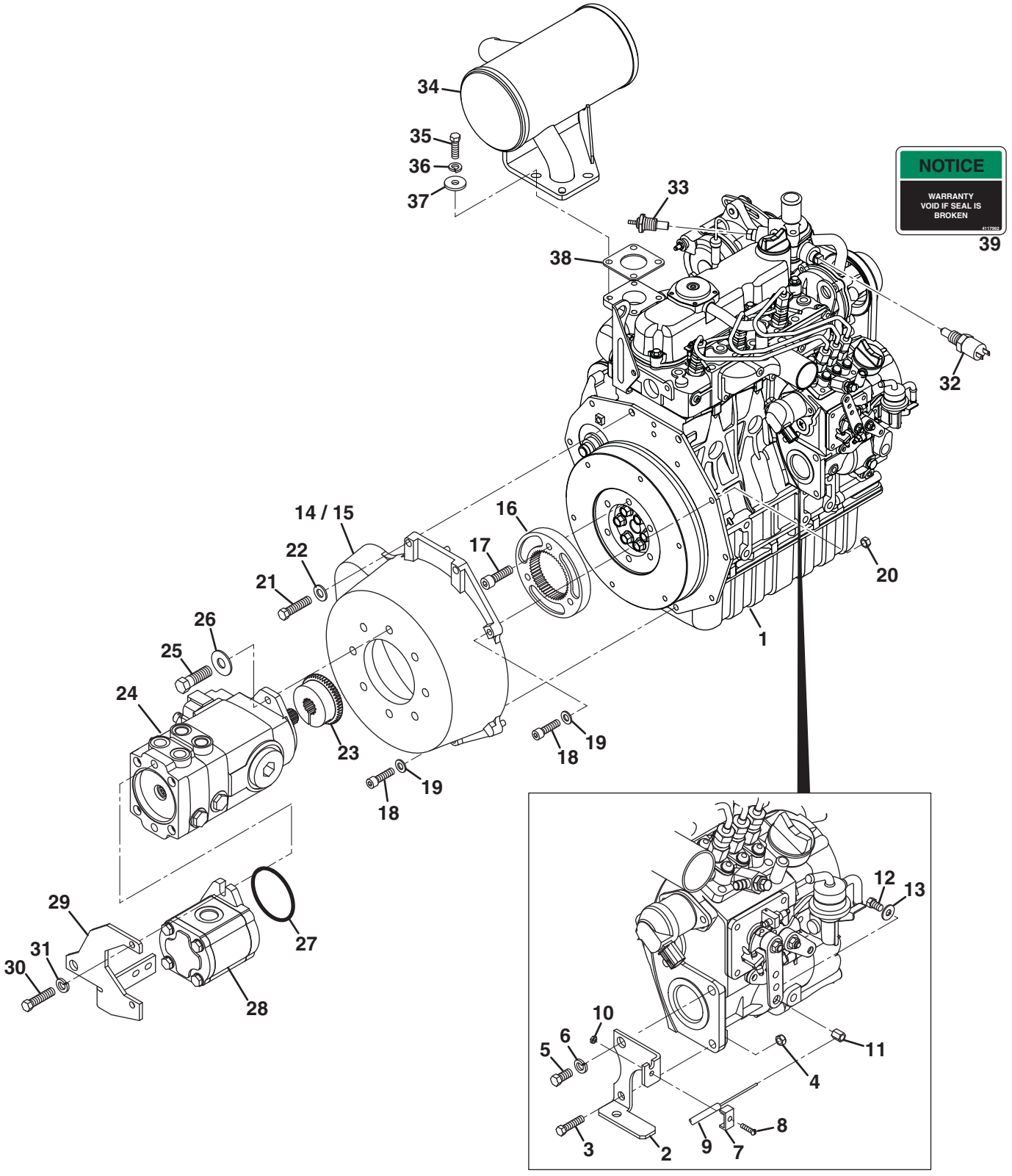


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	REF	1	Engine and Pumps	See 17.1
2	4204100	1	Mount, Right Side Engine	
3	4204080	1	Mount, Left Side Engine	
4	4204081	2	Mount, Right Front, Left Rear Engine	
5	4204101	2	Mount, Left Front, Right Rear Engine	
6	450217	8	Screw, M10-1.5 x 40 mm Hex Head	
7	64251-004	24	Flat Washer, M10	
8	64237-03	20	Locknut, M10-1.5 Nylon	
9	2721459.7	1	Bracket, Left Side Hose	4WD Units Only
10	2721460.7	1	Bracket, Right Side Hose	4WD Units Only
11	64206-08	8	Screw, M10-1.5 x 30 mm Hex Head	
12	800488	8	Lockwasher, M10	
13	2198132	4	Isolation Mount	
14	3004526	8	Washer, Isolation	
15	361500	8	Screw, M10-1.5 x 20 mm Hex Head	
16	3000351	4	Screw, M10-1.5 x 80 mm Hex Head	
17	2722287-02	1	Positive Battery Cable	
18	2721549	1	Negative Battery Cable	
19	2198141	1	Cable, Frame Ground	
20	450190	1	Screw, M8-1.25 x 15 mm Hex Head	
21	446136	1	Lockwasher, 5/16	
22	2308095	1	Cover, Terminal	
23	3970219	1	Cover, Terminal	
24	4125492	1	Spacer, Fan	
25	4192660	1	Fan, 15” 8 Blade	
26	452380	4	Screw, M6-1 x 30 mm Hex Flange	

> Change from previous revision

17.1 Engine and Pumps

Serial No. All

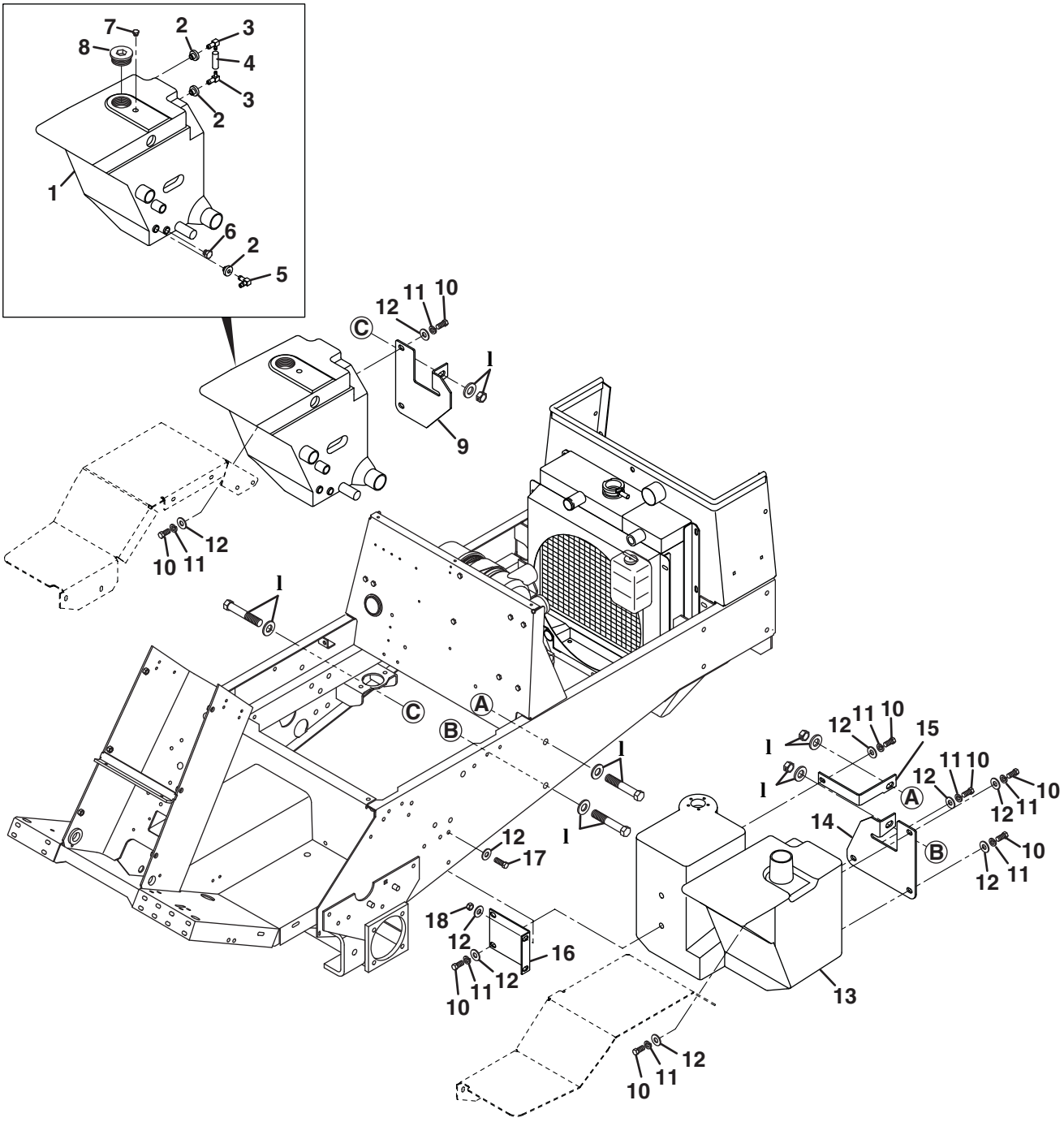


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4182840	1	Kubota D1305-E3B Engine	Includes Item 38
	4177262	1	• Oil Filter	
	5001284	1	• Belt, Alternator-Water Pump	
2	4113994.7	1	Bracket, Throttle	
3	450017	1	Screw, M8-1.25 x 30 mm Hex Head	
4	450378	1	Locknut, M8-1.25 Nylon	
5	362263	1	Screw, M10-1.25 x 20 mm Hex Head	
6	800488	1	Lockwasher, M10	
7	22372	1	Cable Clamp	
8	407587	1	Screw, #10-24 x 3/4” Slotted Hex	
9	REF	1	Throttle Cable	
10	444310	1	Nut, #10-24 Hex	
11	172084	1	Swivel, Cable Clamp	
12	400218	1	Screw, 5/16-24 x 1/2” Hex Head	
13	452004	1	Flat Washer, 5/16	
14	2208048	1	Bell Housing Assembly	
15	2208048-01	1	• Bell Housing	
16	2208048-02	1	• Flange and Hardware Kit	
17	N/S	3	• • Screw, M10 x 30 mm Socket	
18	N/S	4	• • Screw, M8 x 30 mm Socket	
19	N/S	4	• • Flat Washer, M8	
20	N/S	1	• • Nut, M8 Hex	
21	N/S	2	• • Screw, M10 x 35 mm Hex Head	
22	N/S	2	• • Flat Washer, M10	
23	2198187	1	Coupler, 13 Tooth Pump	
24	4215101	1	Pump, Oil Gear	See 42.1
25	400408	2	Screw, 1/2-13 x 1-1/2” Hex Head	
26	452010	2	Flat Washer, 1/2	
27	158061-24	1	O-Ring	
28	2721334	1	Pump, Gear	
	2702707	1	• Seal Kit	
29	2192505.7	1	Bracket, Control Cable	
30	400266	2	Screw, 3/8-16 x 1-1/2” Hex Head	
31	446142	2	Lockwasher, 3/8	
32	2722389	1	Switch, Coolant Temperature	**REFERENCE SW6, See 47.1**
33	148270	1	Temperature Sender	**REFERENCE R2, See 47.1**
34	4192441	1	Muffler	
35	361005	4	Screw, M8-1.25 x 25 mm Hex Head	
36	446136	4	Lockwasher, 5/16	
37	64163-29	4	Flat Washer, 5/16	
38	553020	1	Gasket, Exhaust	
39	4117962	1	Decal, Warranty Void	Decal wrapped anound coolant temperature switch and wires.

> Change from previous revision

18.1 Fuel and Hydraulic Tanks

Serial No. All

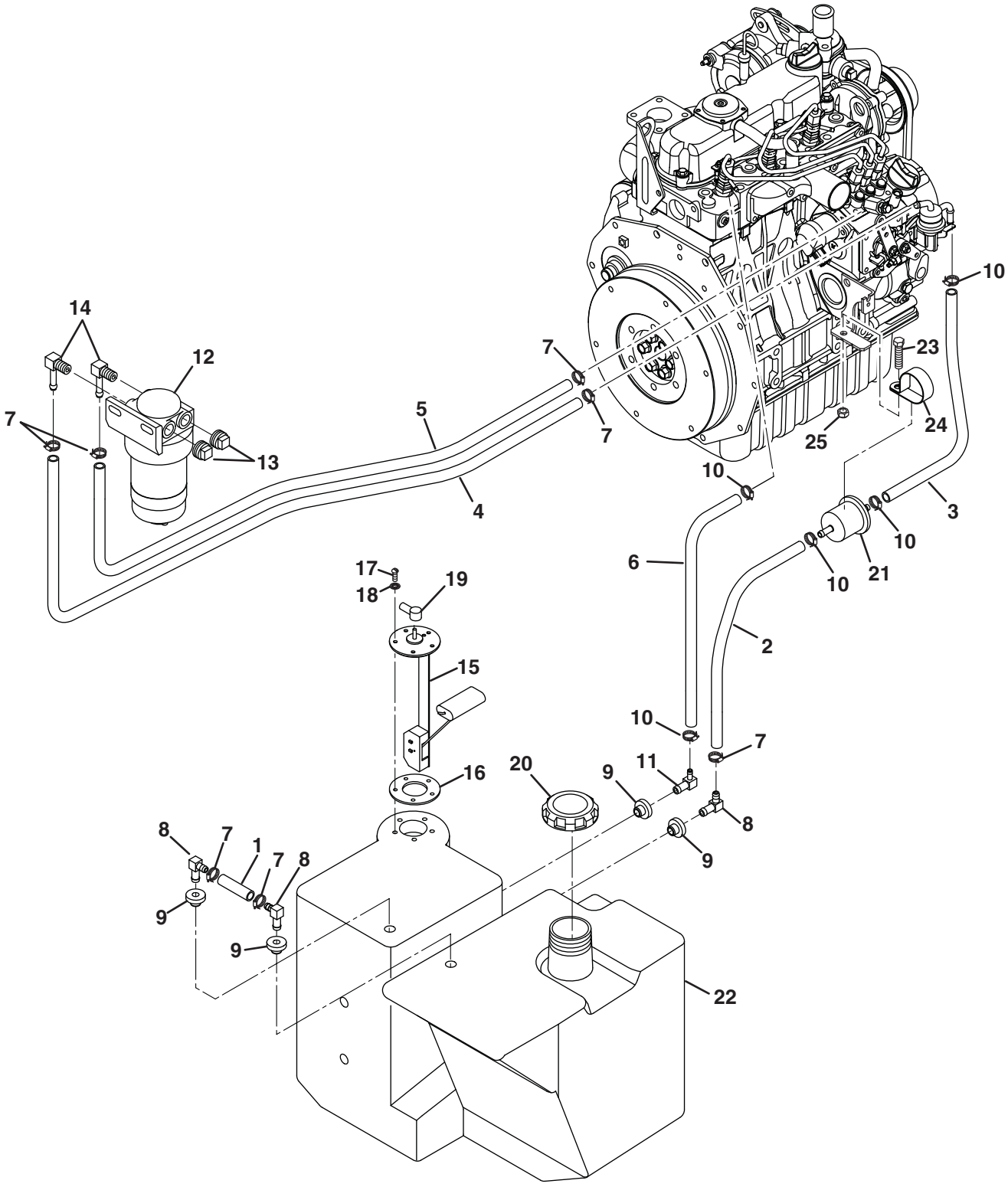


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2198248	1	Tank, Hydraulic	
2	361117	3	• Bushing	
3	2198159	2	• Fitting, 1/4” 90° Elbow	
4	158122-01	1	• Tube, Sight Glass	
5	2690025	1	• Fitting, 3/8” 90° Elbow	
6	2690017-03	1	• Plug, -06 ORB	
	339897	1	• • O-Ring, -06	
7	148027	1	Breather Vent	
8	2690017-02	1	Plug, -20 ORB	
	339902	1	• O-Ring, -20	
9	2192480.7	1	Mount, Hydraulic Tank	
10	450213	12	Screw, M10-1.5 x 20 mm Hex Head	
11	363485	12	Lockwasher, M10	
12	450401	16	Flat Washer, M10	
13	2198188	1	Fuel Tank	
14	2192479.7	1	Mount, Rear Fuel Tank	
15	2192478.7	1	Mount, Upper Fuel Tank	
16	2192477.7	1	Mount, Front Fuel Tank	
17	450214	2	Screw, M10-1.5 x 25 mm Hex Head	
18	450379	2	Nut, M10-1.5 Nylock	
●	ROPS Mounting Hardware, See 11.1			

> Change from previous revision

19.1 Fuel System

Serial No. All

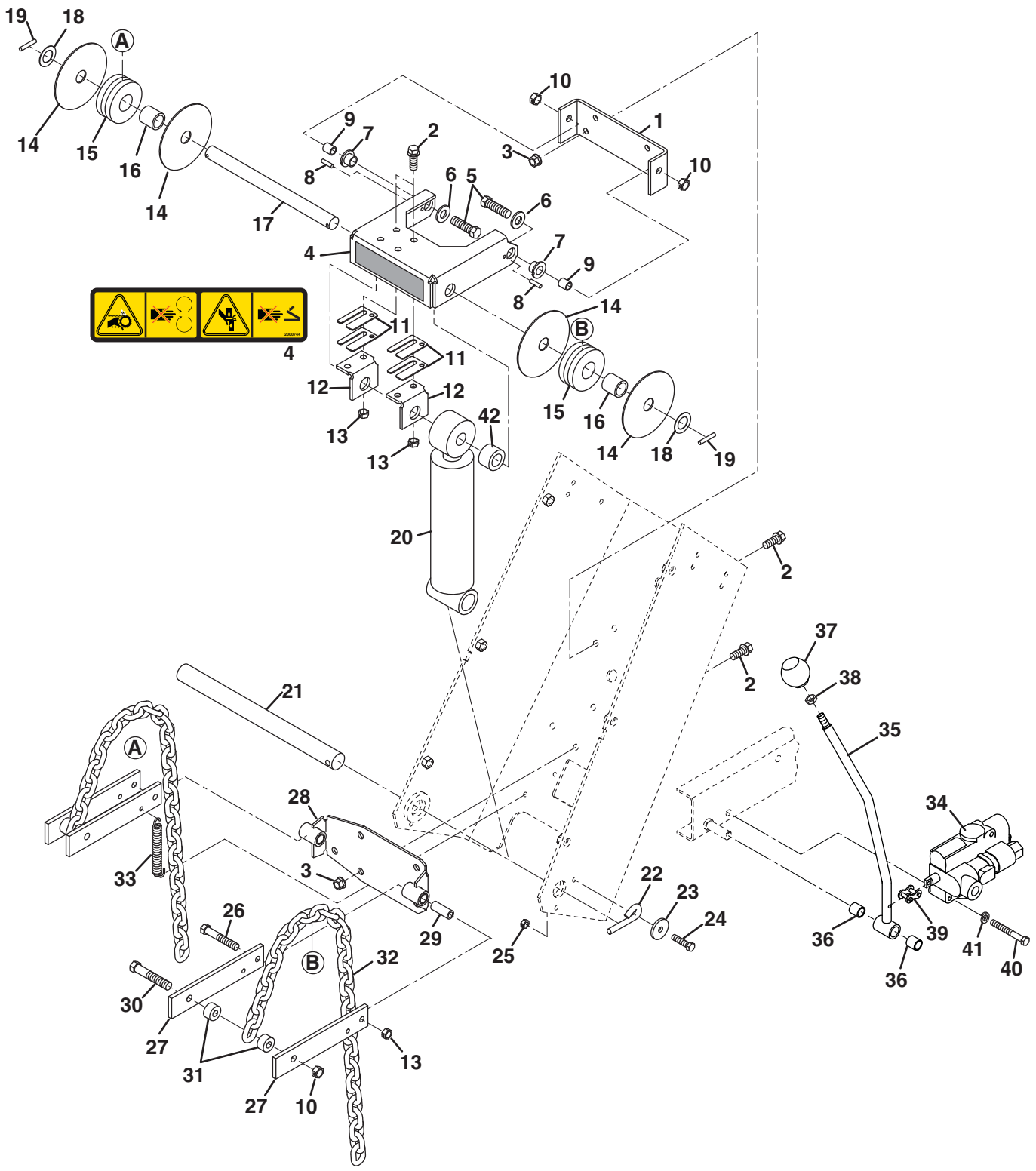


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	554748	1	Fuel Hose	5/16” Hose 10’ Length, Cut to 4”
2	554748	1	Fuel Hose, Tank to Pre-Filter	5/16” Hose 10’ Length, Cut to 30”
3	554748	1	Fuel Hose, Pre-Filter to Pump	5/16” Hose 10’ Length, Cut to 21”
4	554748	1	Fuel Hose, Pump to Fuel Manager	5/16” Hose 10’ Length, Cut to 19”
5	554748	1	Fuel Hose, Fuel Manager to Engine	5/16” Hose 10’ Length, Cut to 14”
6	554752	1	Fuel Hose, Engine Return	3/16” Hose 10’ Length, Cut to 22”
7	4113022	7	Clamp, 5/16” Hose	
8	3003704	3	Fitting, 5/16” 90° Elbow	
9	361117	4	Bushing	
10	825624	4	Hose Clamp	
11	2198159	1	Fitting, 1/4” 90° Elbow	
12	REF	1	Fuel Manager	**See 14.1**
13	69051-05	2	Plug, 1/4 NPTF	
14	108086-05	2	Fitting, 5/16” x 1/4 NPTF 90° Elbow	
15	2208073	1	Sender, Fuel Level	**REFERENCE R3, See 47.1**
16	148081	1	Gasket	
17	402146	5	Screw, #10-24 x 1/2” Machine Screw	
18	303916	5	Star Washer	
19	2198091	1	Boot, Terminal	
20	4179802	1	Cap, Vented Fuel	
21	5001182	1	Filter, Pre-Fuel	
22	REF	1	Fuel Tank	**See 18.1**
23	450017	1	Screw, M8-1.25 x 45 mm Hex Head	
24	4228960	1	Clamp, Filter	
25	450378	1	Nut, M8-1.25 Nylock	
26	88042-01	1	Clamp, 3/16 Hose	

> Change from previous revision

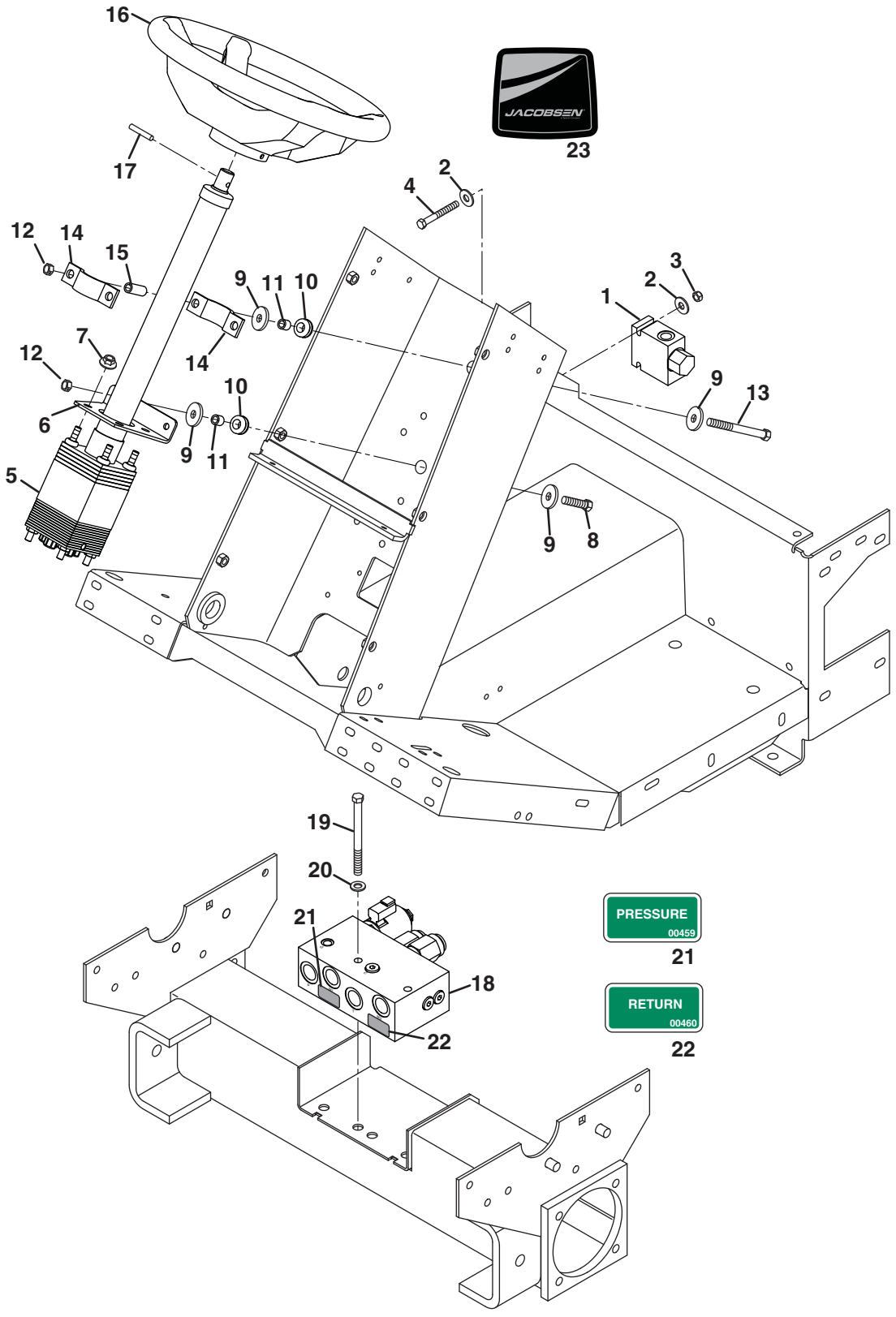
20.1 Lift Cylinder and Chains

Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	192087.7	1	Bracket, Lift Pivot Mounting	
2	548604	13	Screw, 5/16-18 x 3/4" Hex Flange	
3	445781	9	Nut, 5/16-18 Whizlock Flange	
4	4200000	1	Bracket, Pulley Mounting	
	2000744	1	Decal, Rotating Parts Warning	
5	400264	2	Screw, 3/8-16 x 1-1/4" Hex Head	
6	453011	2	Flat Washer, 3/8	
7	108031	2	Bearing, Notched Flange	
8	461355	2	Roll Pin, 1/8 x 1/2"	
9	2198127	2	Tube, Spacer	
10	444762	4	Locknut, 3/8-16 Center	
11	2192291.7	AR	Shim, Cylinder Support	
12	2192289.7	2	Bracket, Cylinder Support	
13	444718	6	Locknut, 5/16-18 Center	
14	192086.7	4	Guide, Chain	
15	196004	2	Pulley, Chain	
16	198003-01	1	• Bearing, Oilite	
17	193003	1	Shaft, Pulley	
18	4250870	2	Thrust Washer	
19	461377	2	Roll Pin, 5/32 x 1-1/4"	
20	4118636	1	Lift Cylinder	
	4118636-01	1	• Seal Kit	
21	2193027	1	Shaft, Cylinder	
22	2193028	1	Pin, Shaft Locking	
23	4250871	1	Flat Washer, 1/4	
24	400112	1	Screw, 1/4-20 x 1" Hex Head	
25	444708	1	Locknut, 1/4-20 Center	
26	400196	2	Screw, 5/16-18 x 2" Hex Head	
27	192091.7	4	Arm, Chain Slack	
28	2196093.7	1	Bracket, Slack Arms	
29	2198126	2	Tube, 1/2 x 5/16 x 1-1/4"	
30	400270	2	Screw, 3/8-16 x 2" Hex Head	
31	73017A	4	Idler Bushing	
32	198002-01	2	Chain, Lift	
33	2198094	2	Spring, Extension	
34	4240902	1	Lift Valve	
	4240903	1	• Seal Kit	
35	2196138.7	1	Lift Lever	
36	328016	2	• Bushing	
37	68156A	1	Handle-Knob	
38	443810	1	Nut, 3/8-16 Hex Jam	
39	548481	1	Master Link, #50 Chain	
40	450005	2	Screw, M6-1 x 50 mm Hex Head	
41	446130	2	Lockwasher, 1/4 Helical	
42	4200001	1	Spacer, Lift Cylinder	

> Change from previous revision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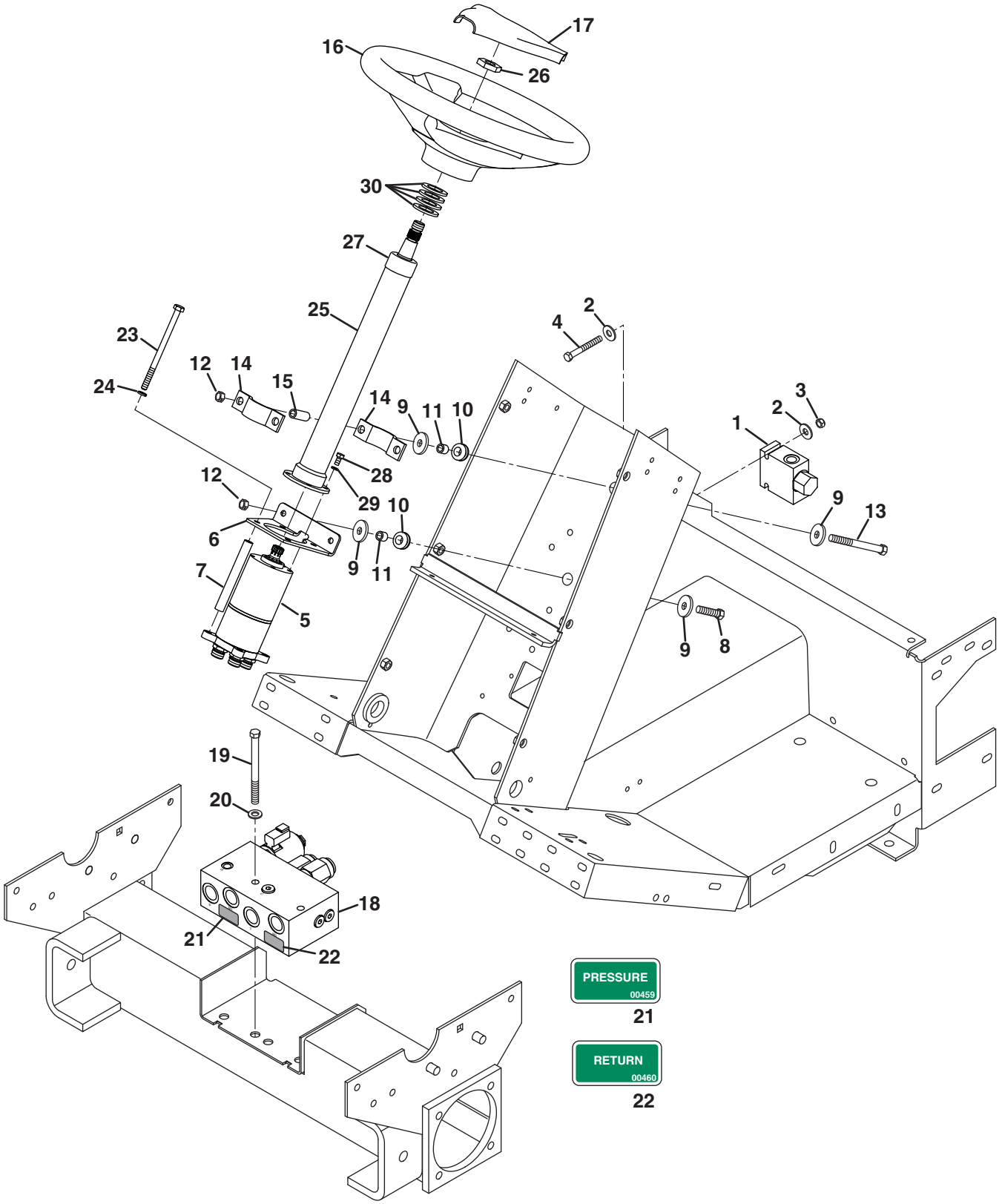
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4114131	1	Valve, Hot Oil Shuttle	4WD Units Only
	4114131-1	1	• Plug, 0.088” Orifice	
	4114131-2	1	• Cartridge, Directional Control	
	4114131-3	1	• Seal Kit	
2	452004	4	Flat Washer, M6	4WD Units Only
3	450377	2	Nut, M6-1 Nylock	4WD Units Only
4	450005	2	Screw, M6-1 x 50 mm Hex Head	
5	148132	1	Steering Valve	
	148132-01	1	• Seal Kit	
6	2192383.7	2	Steering Valve Mount	
7	445784	4	Nut, 5/16-18 Whizlock Flange	
8	400190	2	Screw, 5/16-18 x 1-1/4” Hex Head	
9	809152	8	Flat Washer, 5/16	
10	148034-06	4	Grommet	
11	2198134	4	Spacer, Tube	
12	444718	4	Locknut, 5/16 Center	
13	400190	2	Screw, 5/16-18 x 3” Hex Head	
14	142143.7	2	Clamp, Front	
15	2198126	2	Spacer, Tube	
16	2198130	1	Steering Wheel	
17	461393	1	Roll Pin, 1/4 x 2”	
18	4135584	1	Deck Valve	See 45.1
19	355177	2	Screw, M8-1.25 x 90 mm Hex Head	
20	450400	2	Flat Washer, M8	
21	00459	1	Decal, Pressure	
22	00460	1	Decal, Pressure	
23	4127564	1	Decal, Steering Wheel Cap	

> Change from previous revision

21.2 Hydraulic Valves

Serial No. 69168 - 1779 and Up
Serial No. 69169 - 1907 and Up

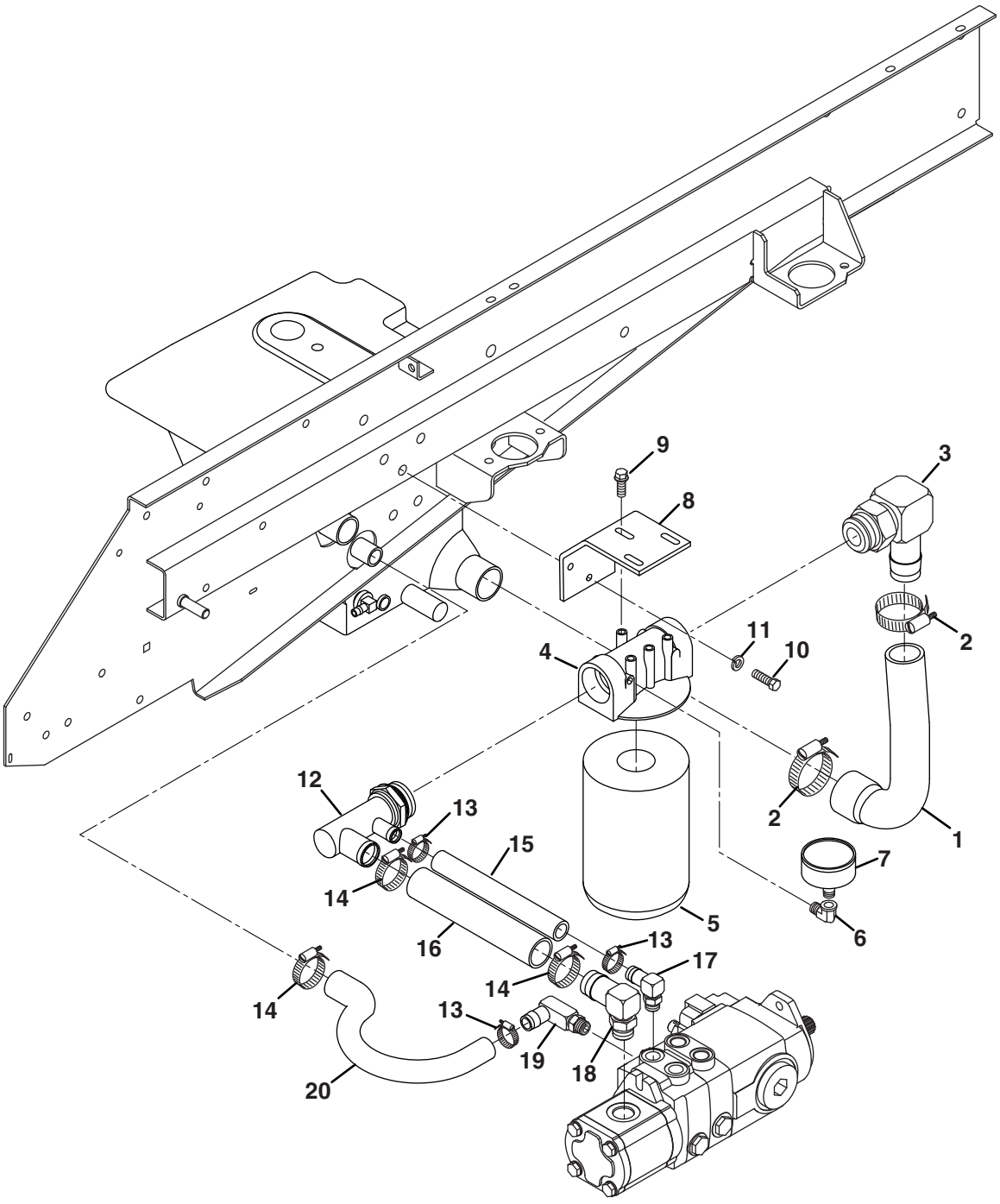


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4114131	1	Valve, Hot Oil Shuttle	4WD Units Only
	4114131-1	1	• Plug, 0.088” Orifice	
	4114131-2	1	• Cartridge, Directional Control	
	4114131-3	1	• Seal Kit	
2	450389	4	Flat Washer, M6	4WD Units Only
3	450377	2	Nut, M6-1 Nylock	4WD Units Only
4	450005	2	Screw, M6-1 x 50 mm Hex Head	
5	4248151	1	Steering Valve	
	4197940	1	• Seal Kit	
6	4249470	2	Steering Valve Mount	
7	4211400	4	Spacer, Steering Column	
8	400190	2	Screw, 5/16-18 x 1-1/4” Hex Head	
9	809152	8	Flat Washer, 5/16	
10	148034-06	4	Grommet	
11	2198134	4	Spacer, Tube	
12	444718	4	Locknut, 5/16 Center	
13	400202	2	Screw, 5/16-18 x 3” Hex Head	
14	142143.7	2	Clamp, Front	
15	2198126	2	Spacer, Tube	
16	2811364	1	Steering Wheel	
17	2811365	1	• Cap, Steering Wheel	
18	4135584	1	Deck Valve	See 45.1
19	355177	2	Screw, M8-1.25 x 90 mm Hex Head	
20	450400	2	Flat Washer, M8	
21	00459	1	Decal, Pressure	
22	00460	1	Decal, Pressure	
23	4224460	4	Screw, M8-1.25 x 125 mm Hex Head	
24	450411	4	Lockwasher, M8	
25	4248190	1	Shaft, Steering Column	
26	443828	1	• Nut, 5/8-18 Hex Jam	
27	4201840	1	• Seal, Shaft	
28	450168	4	Screw, M6-1 x 12 mm Hex Head	
29	450410	4	Lockwasher, M6	
30	2811547	4	Washer, Shaft	

> Change from previous revision

22.1 Pump Hydraulics

Serial No. All

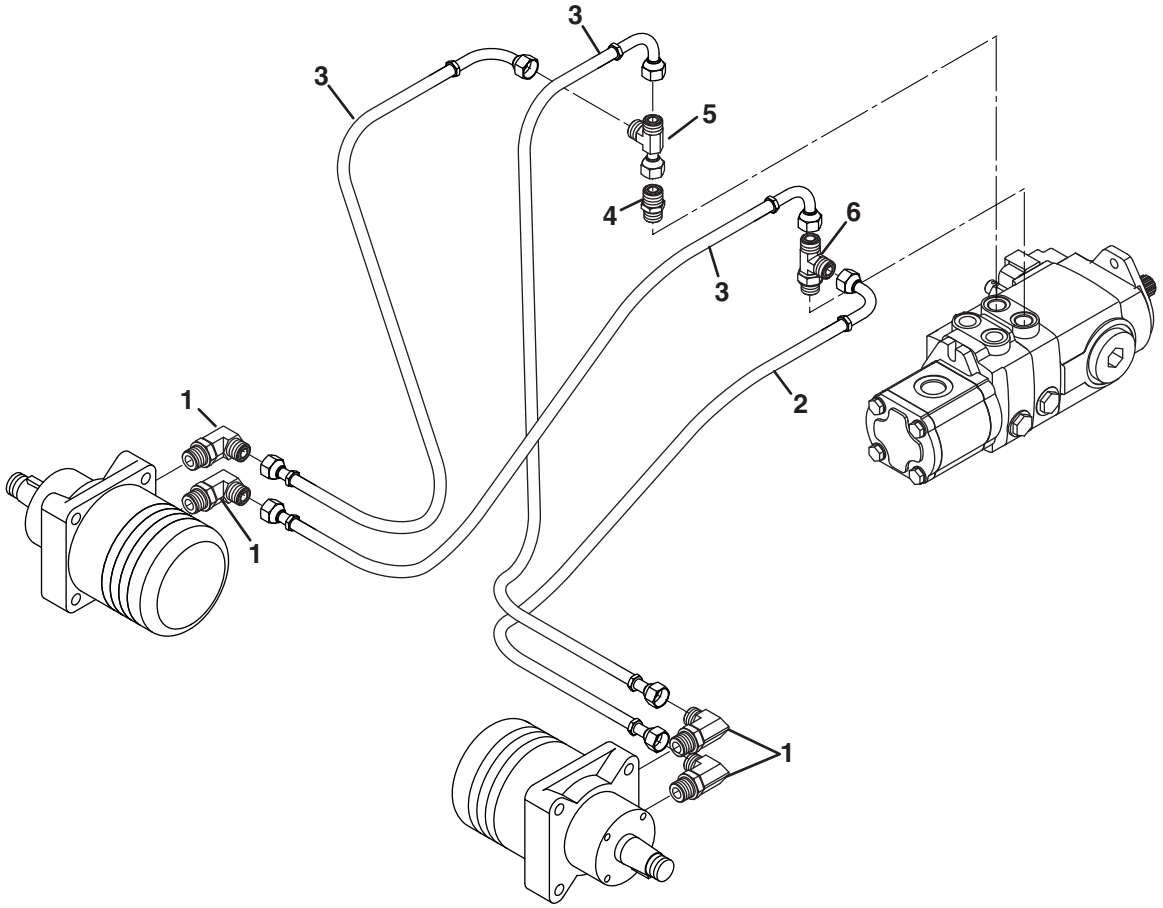


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2198257	1	Hose, Tank Outlet	
2	326799	2	Clamp, Hose	
3	158058-08	1	Fitting, -24 ORB 90° Barbed	
	339903	1	• O-Ring, -12	
4	2198295	1	Filter Head	
5	178025	1	Filter, Spin On	
6	2690032-01	1	Fitting, 1/8 NPT 90° Street El	
7	2198294	1	Gauge, Filter Vacuum	
8	2192518.7	1	Bracket, Filter	
9	548604	3	Screw, 5/16-18 x 3/4” Whizlock	
10	450192	3	Screw, M8-1.25 x 25 mm Hex Head	
11	446136	3	Lockwasher, 5/16 Heavy	
12	2198202	1	Inlet Manifold	
13	830930	3	Clamp, 1/2 to 1-1/4” Hose	
14	367458	3	Clamp, 3/4 to 1-3/4” Hose	
15	2692292-01	1	Hose, 3/4” ID x 8” Wire Reinforced	
16	2692232-05	1	Hose, 1-1/4” ID x 9” Wire Reinforced	
17	158058-01	1	Fitting, -8 ORB 90° Barbed	
	339898	1	• O-Ring, -8	
18	158058-12	1	Fitting, -12 ORB 90° Barbed	
	339900	1	• O-Ring, -12	
19	158058-15	1	Fitting, -8 ORB 90° Barbed	
	339898	1	• O-Ring, -8	
20	2198254	1	Hose, Case Drain	

> Change from previous revision

23.1 2WD Traction Hydraulics

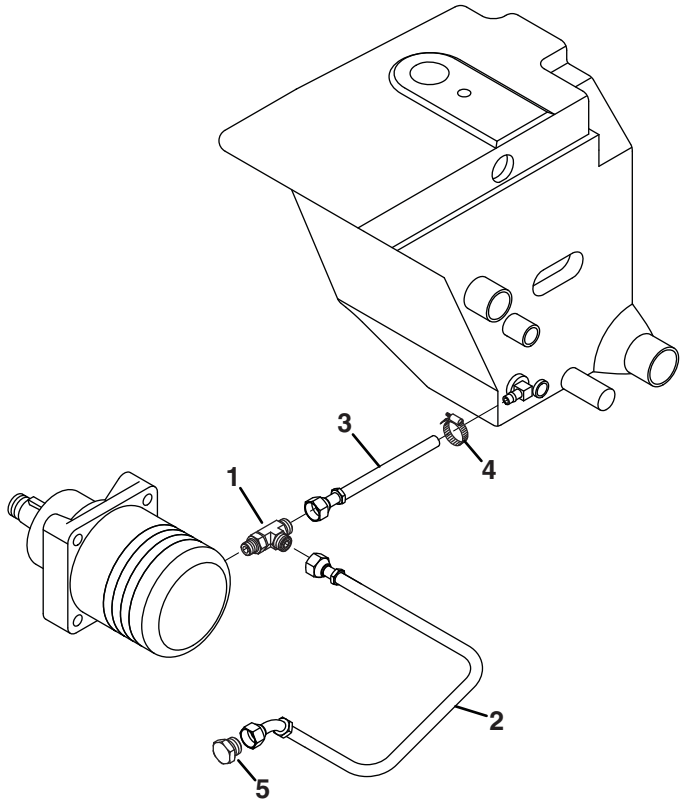
Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	340067	4	Fitting, -8 ORFS x -10 ORB 90°	
	339910	1	• O-Ring, -8 ORFS	
	339899	1	• O-Ring, -10 ORB	
2	2692223-09	1	Hose, Front Wheel Motor	
3	2692223-06	3	Hose, Front Wheel Motor	
4	339984	1	Fitting, -8 ORFS x -8 ORB Straight	
	339910	1	• O-Ring, -8 ORFS	
	339898	1	• O-Ring, -8 ORB	
5	340120	1	Fitting, -8 ORFS Run Tee	
	339910	2	• O-Ring, -8 ORFS	
6	340264	1	Fitting, -8 ORFS x -8 ORB Tee	
	339910	2	• O-Ring, -8 ORFS	
	339898	1	• O-Ring, -8 ORB	

> Change from previous revision

24.1 2WD Drain Hydraulics

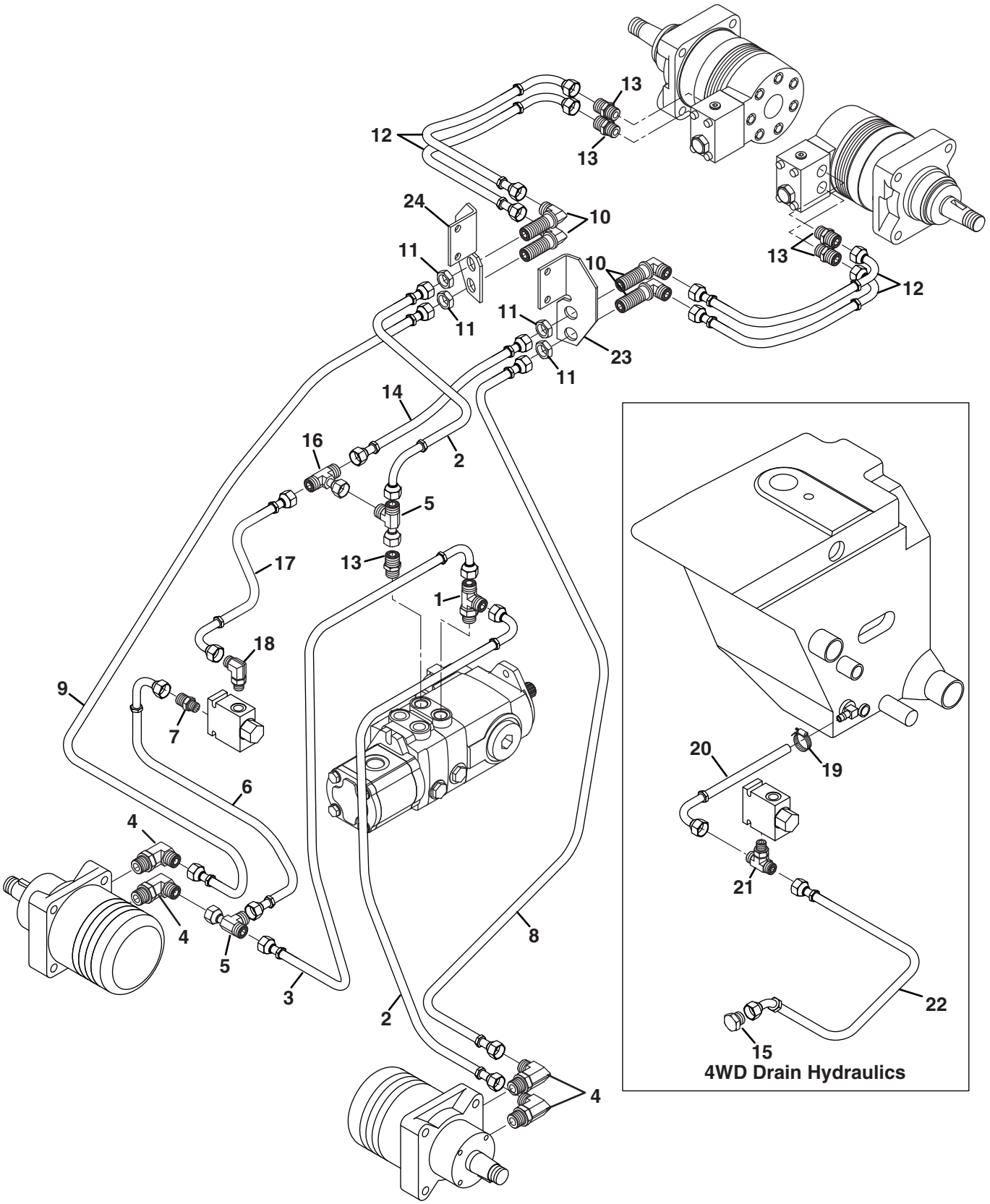


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	340263	1	Fitting, -6 ORFS x -6 ORB Tee	
	339909	2	• O-Ring, -6 ORFS	
	339897	1	• O-Ring, -6 ORB	
2	2692217-16	1	Cutting Unit Motor Drain	Connect to cutting unit motor
3	2692250-01	1	Hose, Motor Case Drain	
4	830930	1	Clamp, 1/2 to 1-1/4” Hose	
5	339941	1	Plug, -6 ORFS	Plug removed when cutting unit is installed.
	339909	1	• O-Ring, -6 ORFS	

> Change from previous revision

25.1 4WD Hydraulics

Serial No. All

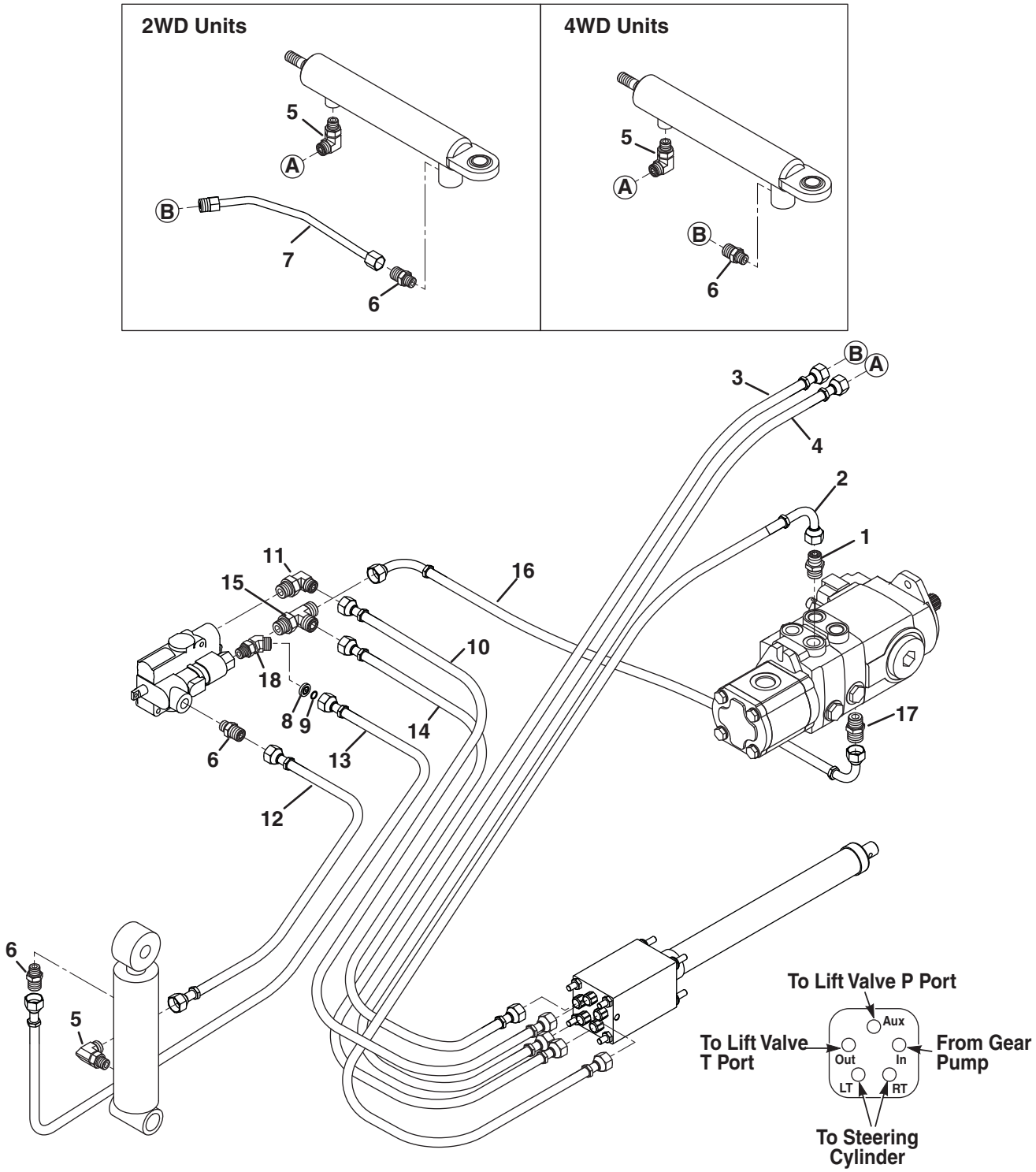


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	340264	1	Fitting, -8 ORFS x -8 ORB Tee	
	339910	2	• O-Ring, -8 ORFS	
	339898	1	• O-Ring, -8 ORB	
2	2692223-09	2	Hose, Wheel Motor	
3	2692223-06	1	Hose, Wheel Motor	
4	340067	4	Fitting, -8 ORFS x -10 ORB 90°	
	339910	1	• O-Ring, -8 ORFS	
	339899	1	• O-Ring, -10 ORB	
5	340120	1	Fitting, -8 ORFS Run Tee	
	339910	2	• O-Ring, -8 ORFS	
6	2692215-29	1	Hose, Wheel Motor to Hot Oil Shuttle	
7	339979	1	Fitting, -6 ORFS x -6 ORB Straight	
	339909	1	• O-Ring, -6 ORFS	
	339897	1	• O-Ring, -6 ORB	
8	2692222-06	1	Hose, Wheel Motor	
9	2692222-07	1	Hose, Wheel Motor	
10	340168	4	Fitting, -8 ORFS 90° Bulkhead	
	339910	2	• O-Ring, -8 ORFS	
11	339962	1	• Locknut, Bulkhead	
12	2692299-01	4	Hose, Rear Wheel Motor	
13	339984	1	Fitting, -8 ORFS x -8 ORB Straight	
	339910	1	• O-Ring, -8 ORFS	
	339898	1	• O-Ring, -8 ORB	
14	2692222-08	1	Hose, Wheel Motor	
15	339941	1	Plug, -6 ORFS	Plug removed when cutting unit is installed.
	339909	1	• O-Ring, -6 ORFS	
16	340144	1	Fitting, -8 ORFS Branch Tee	
	339910	2	• O-Ring, -8 ORFS	
17	2692215-28	1	Hose, Hot Oil Shuttle	
18	340061	1	Fitting, -6 ORFS x -6 ORB 90°	
	339909	1	• O-Ring, -6 ORFS	
	339897	1	• O-Ring, -6 ORB	
19	830930	1	Clamp, 1/2 to 1-1/4” Hose	
20	69213-03	1	Hose,Hot Oil Shuttle Return	
21	340096	1	Fitting, -6 ORFS x -6 ORB Branch Tee	
	339909	2	• O-Ring, -6 ORFS	
	339897	1	• O-Ring, -6 ORB	
22	2692217-16	1	Hose, Cutting Unit Motor Return	
23	2721459.7	1	Bracket, Left Side Hose	See 16.1
24	2721460.7	1	Bracket, Right Side Hose	See 16.1

> Change from previous revision

26.1 Steering and Lift Hydraulics

Serial No. 69168 - 1651~1778
Serial No. 69169 - 1651~1906

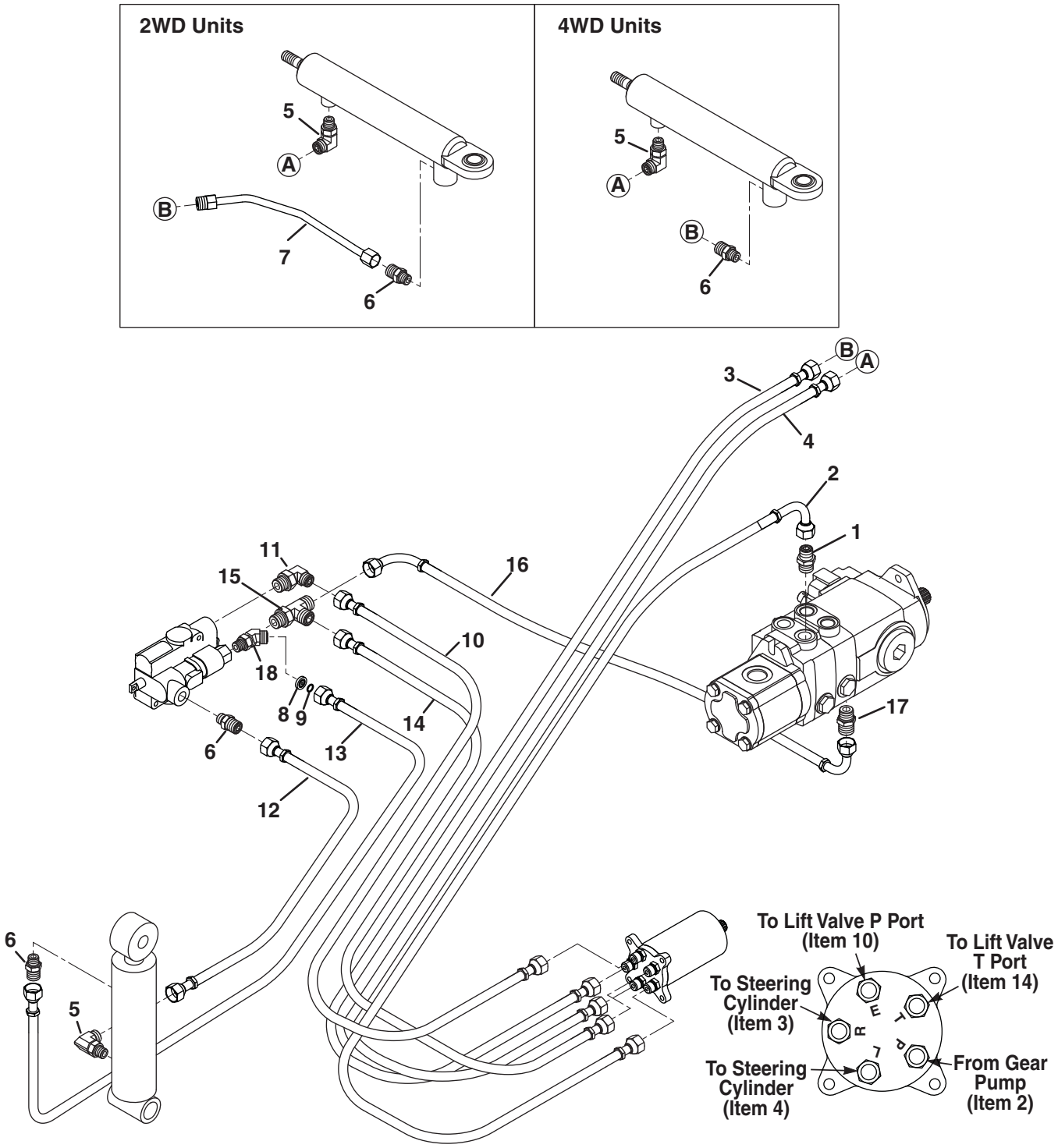


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	339980	1	Fitting, -6 ORFS x -8 ORB Straight	
	339909	1	• O-Ring, -6 ORFS	
	339898	1	• O-Ring, -8 ORB	
2	2692231-02	1	Hose, Power Steering	Power Steering Valve Port In
3	2692269-01	1	Hose, Steering Cylinder Base Port	Power Steering Valve Port RT
4	2692269-02	1	Hose, Steering Cylinder Rod Port	Power Steering Valve Port LT
5	340061	2	Fitting, -6 ORFS x -6 ORB 90°	
	339909	1	• O-Ring, -6 ORFS	
	339897	1	• O-Ring, -6 ORB	
6	339979	3	Fitting, -6 ORFS x -6 ORB Straight	
	339909	1	• O-Ring, -6 ORFS	
	339897	1	• O-Ring, -6 ORB	
7	2198218	1	Tube, Steering Cylinder	2WD Units Only
8	69068-06	1	Orifice Disk	
9	158061-01	1	O-Ring, -6 ORFS	
10	2692247-01	1	Hose, Steering Valve to Lift Valve	Power Steering Valve Port Aux
11	340062	1	Fitting, -6 ORFS x -8 ORB 90°	
	339909	1	• O-Ring, -6 ORFS	
	339898	1	• O-Ring, -8 ORB	
12	69206-05	1	Hose, Lift Cylinder Base Port	
13	2692215-22	1	Hose, Lift Cylinder Rod Port	
14	2692245-01	1	Hose, Steering Valve Return	Power Steering Valve Port Out
15	340264	1	Fitting, -8 ORFS x -8 ORB Tee	
	339910	2	• O-Ring, -8 ORFS	
	339898	1	• O-Ring, -8 ORB	
16	2692219-03	1	Hose, Lift Valve Return	
17	339984	1	Fitting, -8 ORFS x -8 ORB Straight	
	339910	1	• O-Ring, -8 ORFS	
	339898	1	• O-Ring, -8 ORB	
18	340026	1	Fitting, -6 ORFS x -6 ORB 45°	
	339909	1	• O-Ring, -6 ORFS	
	339897	1	• O-Ring, -6 ORB	

> Change from previous revision

26.2 Steering and Lift Hydraulics

Serial No. 69168 - 1779 and Up
Serial No. 69169 - 1906 and Up
Serial No. 69175 - 1651 and Up
Serial No. 69176 - 1651 and Up

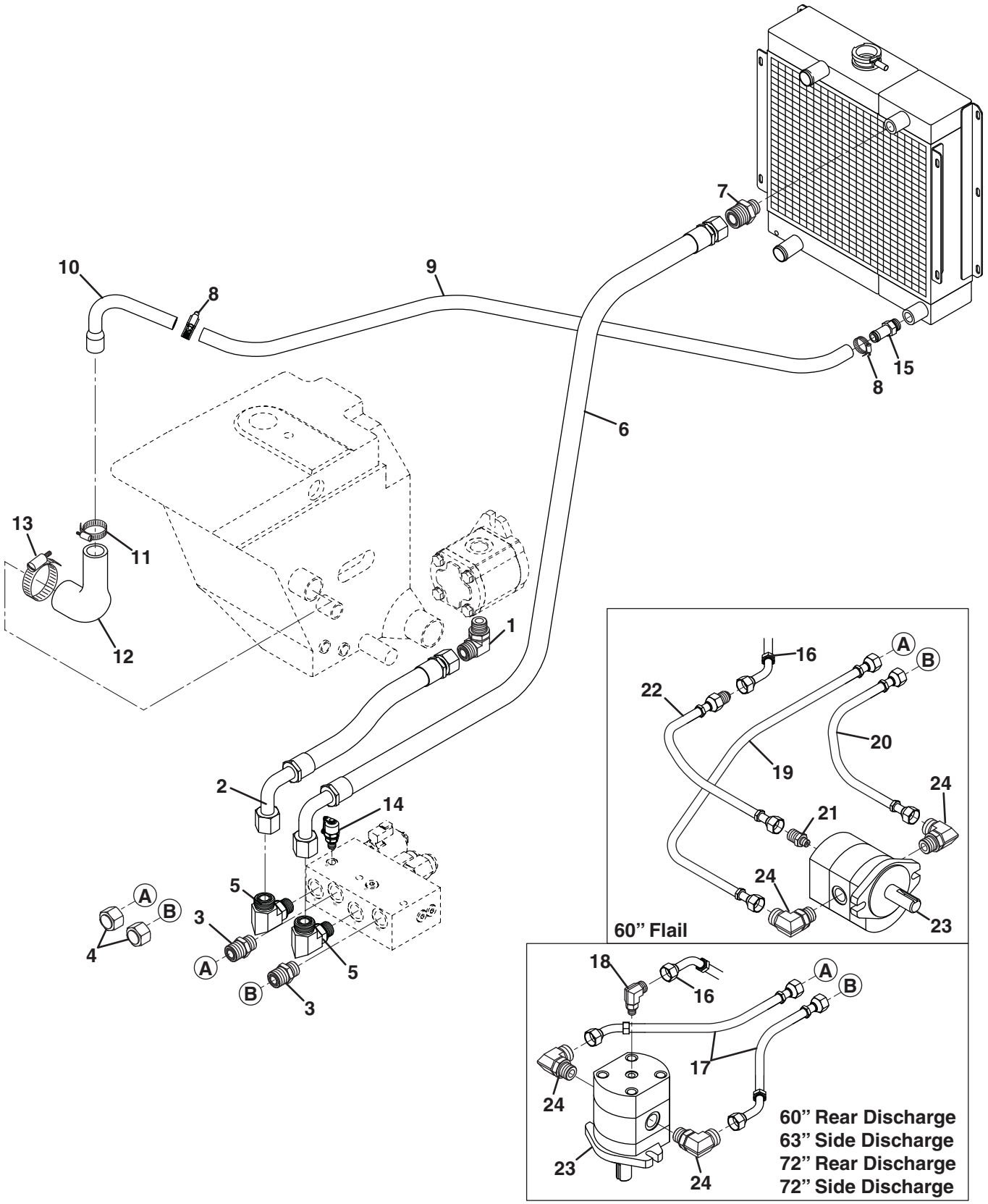


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	339980	1	Fitting, -6 ORFS x -8 ORB Straight	
	339909	1	• O-Ring, -6 ORFS	
	339898	1	• O-Ring, -8 ORB	
2	4249471	1	Hose, Power Steering	Steering Valve Port P
3	4249473	1	Hose, Steering Cylinder Base Port	Steering Valve Port R
4	4249474	1	Hose, Steering Cylinder Rod Port	Steering Valve Port L
5	340061	2	Fitting, -6 ORFS x -6 ORB 90°	
	339909	1	• O-Ring, -6 ORFS	
	339897	1	• O-Ring, -6 ORB	
6	339979	3	Fitting, -6 ORFS x -6 ORB Straight	
	339909	1	• O-Ring, -6 ORFS	
	339897	1	• O-Ring, -6 ORB	
7	2198218	1	Tube, Steering Cylinder	2WD Units Only
8	69068-06	1	Orifice Disk	
9	158061-01	1	O-Ring, -6 ORFS	
10	4249475	1	Hose, Steering Valve to Lift Valve	Steering Valve Port E
11	340062	1	Fitting, -6 ORFS x -8 ORB 90°	
	339909	1	• O-Ring, -6 ORFS	
	339898	1	• O-Ring, -8 ORB	
12	69206-05	1	Hose, Lift Cylinder Base Port	
13	2692215-22	1	Hose, Lift Cylinder Rod Port	
14	4249472	1	Hose, Steering Valve Return	Steering Valve Port T
15	340264	1	Fitting, -8 ORFS x -8 ORB Tee	
	339910	2	• O-Ring, -8 ORFS	
	339898	1	• O-Ring, -8 ORB	
16	2692219-03	1	Hose, Lift Valve Return	
17	339984	1	Fitting, -8 ORFS x -8 ORB Straight	
	339910	1	• O-Ring, -8 ORFS	
	339898	1	• O-Ring, -8 ORB	
18	340026	1	Fitting, -6 ORFS x -6 ORB 45°	
	339909	1	• O-Ring, -6 ORFS	
	339897	1	• O-Ring, -6 ORB	

> Change from previous revision

27.1 Deck Valve Hydraulics

Serial No. All

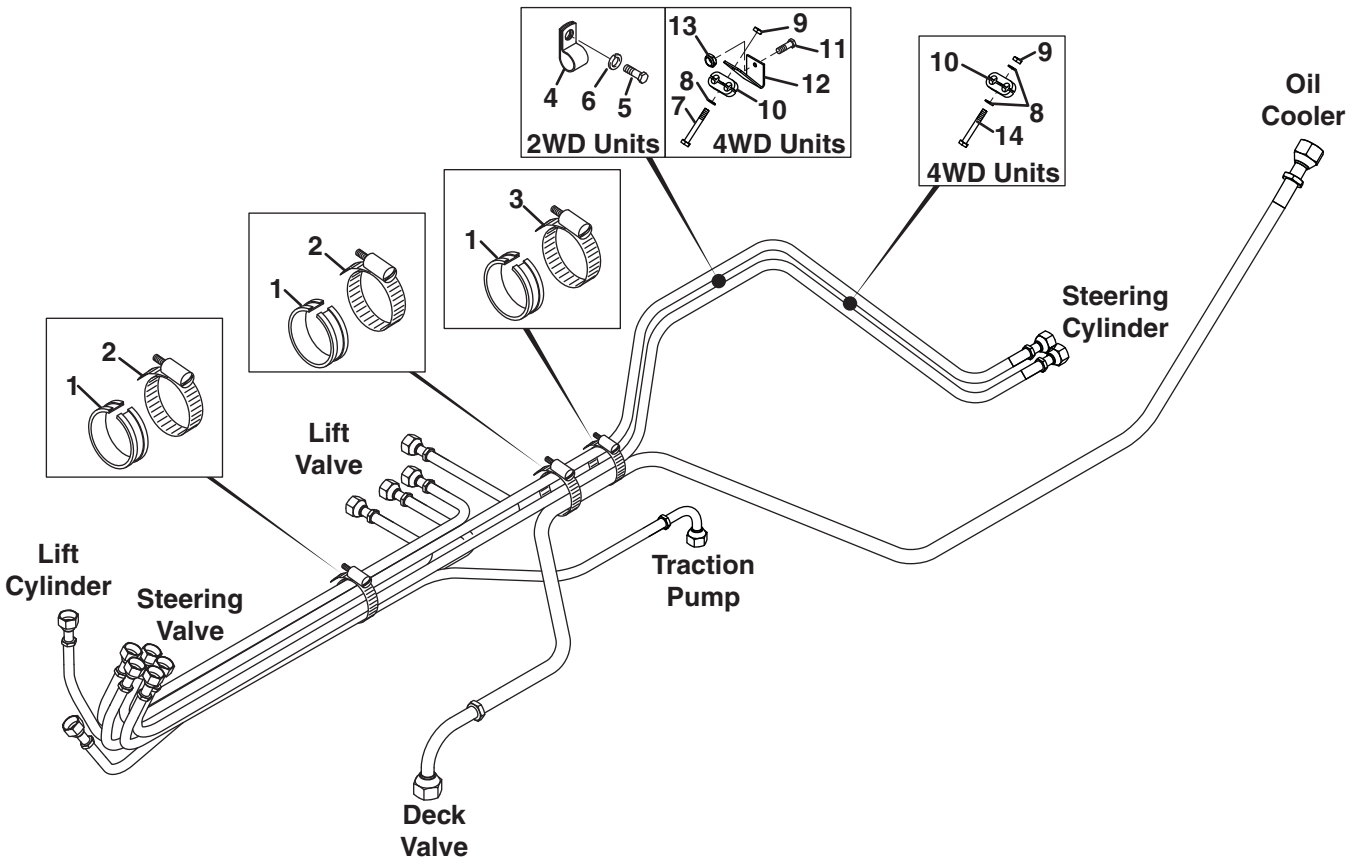


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	340070	2	Fitting, -10 ORFS x -10 ORB 90°	
	339911	1	• O-Ring, -10 ORFS	
	339899	1	• O-Ring, -10 ORB	
2	178112-09	1	Hose, Pump to Deck Valve	
3	339989	2	Fitting, -10 ORFS x -10 ORB Straight	
	339911	1	• O-Ring, -10 ORFS	
	339899	1	• O-Ring, -10 ORB	
4	339923	2	Cap, -10 ORFS	Caps removed when cutting unit is installed.
5	340073	1	Fitting, -12 ORFS x -10 ORB 90°	
	339912	1	• O-Ring, -12 ORFS	
	339899	1	• O-Ring, -10 ORB	
6	2692244-01	1	Hose, Deck Valve to Oil Cooler	
7	339993	1	Fitting, -12 ORFS x -10 ORB Straight	
	339912	1	• O-Ring, -12 ORFS	
	339899	1	• O-Ring, -10 ORB	
8	830930	2	Hose Clamp, 1/2 - 1-1/4” dia.	
9	108091-11	1	Hose, 3/4” I.D. x 48” Long	
10	4199840	1	Tube, Oil Cooler to Tank	
11	367458	1	Hose Clamp, 3/4 - 1-3/4” dia.	
12	2198255	1	Hose, Tank Return	
13	326799	1	Hose Clamp, 2-1/2”	
14	4228940	1	Test Fitting	
15	2690016-01	1	Fitting, -10 ORB x 3/4” Barbed	
	339899	1	• O-Ring, -10 ORB	
16	2692217-16	1	Hose, Cutting Unit Motor Return	See 24.1 or 25.1
17	2692295-02	2	Hose, Deck Valve to Deck Motor	956023 - 60” Rear Discharge Only
17	2692295-03	2	Hose, Deck Valve to Deck Motor	956314 - 63” Side Discharge Only
17	2692295-04	2	Hose, Deck Valve to Deck Motor	957233 - 72” Side Discharge 957234 - 72” Rear Discharge
18	340059	1	Fitting, -6 ORFS x -4 ORB 90°	956023 - 60” Rear Discharge 956314 - 63” Side Discharge 957233 - 72” Side Discharge 957234 - 72” Rear Discharge
	339909	1	• O-Ring, -6 ORFS	
	339896	1	• O-Ring, -4 ORB	
19	2692238-06	1	Hose, Deck Valve to Flail Motor	956025 - 60” Flail Only
20	2692238-05	1	Hose, Flail Motor to Deck Valve	
21	339977	1	Fitting, -6 ORFS x -4 ORB Straight	
	339909	1	• O-Ring, -6 ORFS	
	339896	1	• O-Ring, -4 ORB	
22	2692286-02	1	Hose, Flail Motor Drain	
23	2218152-05	1	Motor, 20.8 cc Cutting Unit	Parts included with and are common to all cutting units
	2218152-04	1	• Seal Kit	
24	340070	2	Fitting, -10 ORFS x -10 ORB 90°	
	339911	1	• O-Ring, -10 ORFS	
	339899	1	• O-Ring, -10 ORB	

> Change from previous revision

28.1 Hydraulic Clamps

Serial No. All

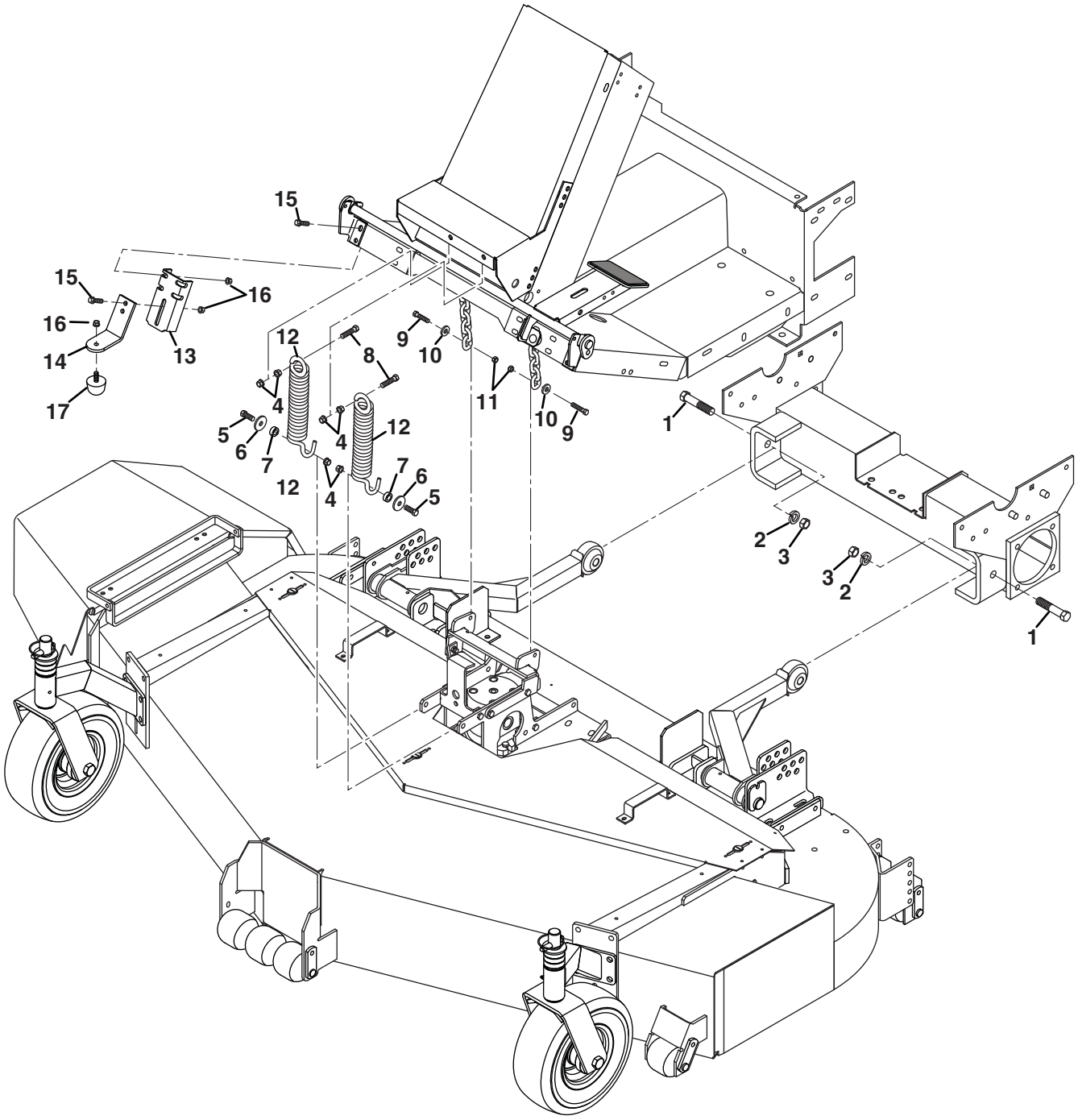


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	65362-04	3	Rubber, Clamp	10” Length, Cut to fit clamp
2	326112	2	Clamp, Hose	
3	326799	1	Clamp, Hose	
4	108138-02	1	Hose Clamp	2WD Units Only
5	452390	1	Screw, M8-1.25 x 30 mm Hex Head	2WD Units Only
6	446136	1	Lockwasher, 5/16	2WD Units Only
7	400120	1	Screw, 1/4-20 x 2” Hex Head	4WD Units Only
8	452004	3	Flat Washer, 1/4	4WD Units Only
9	445770	2	Nut, 1/4-20 Hex Nylock	4WD Units Only
10	148090-03	2	Hose Support	4WD Units Only
11	450015	1	Screw, M8-1.25 x 35 mm Hex Head	4WD Units Only
12	2722141.7	1	Bracket, Hose	4WD Units Only
13	450378	1	Nut, M8-1.25 Hex Nylock	4WD Units Only
14	64123-105	1	Screw, 1/4-20 x 1-5/8” Hex Head	

> Change from previous revision

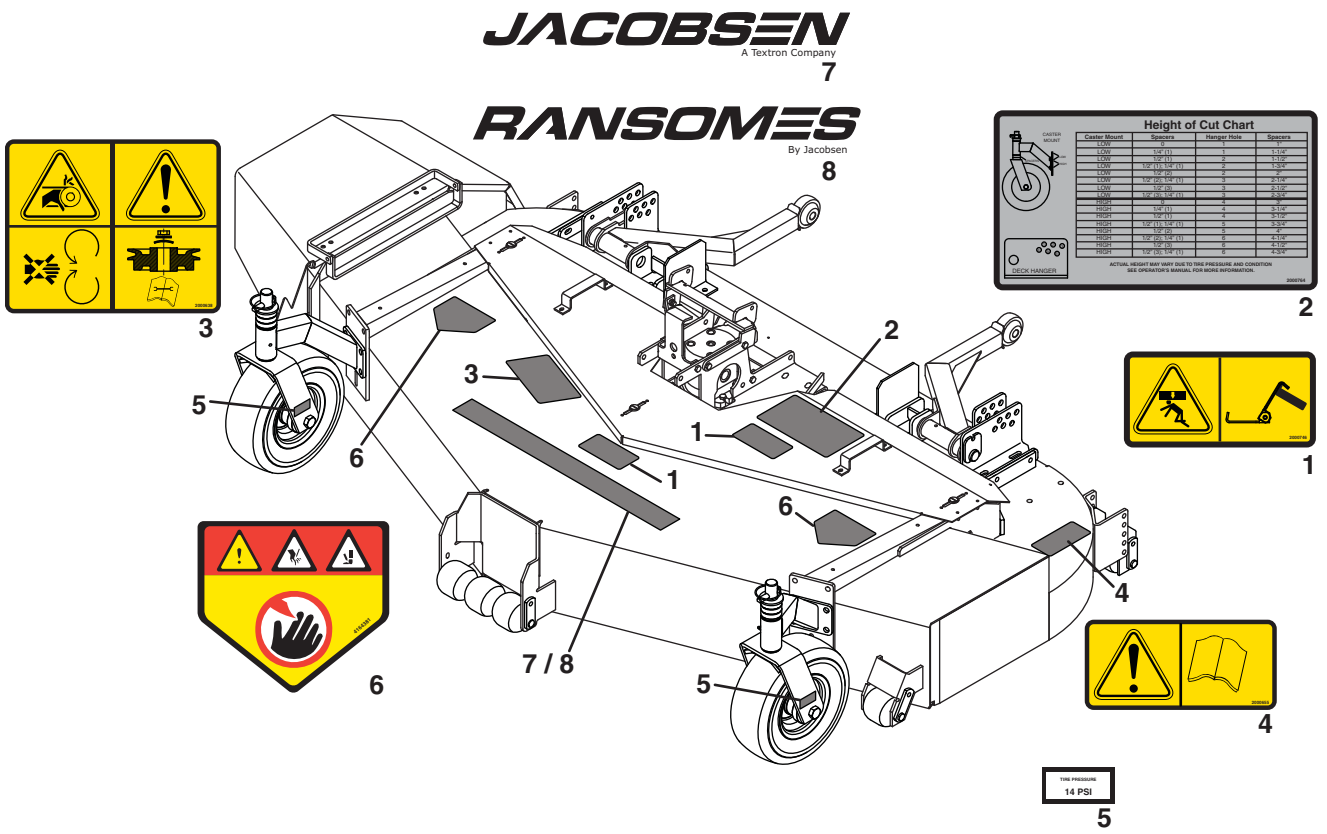
29.1 Deck Attachment

Serial No. 956023 - All
Serial No. 956314 - All
Serial No. 957233 - All
Serial No. 957234 - All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	64123-133	2	Screw, 5/8-18 x 3” Hex Head	
2	446166	2	Lockwasher, 5/8	
3	443128	2	Nut, 5/8-18 Hex	
4	64141-4	6	Nut, 3/8-16 Whiz Lock Flange	
5	400262	2	Screw, 3/8-16 x 1” Hex Head	
6	310711	2	Flat Washer, 3/8	
7	23009A	2	Spacer	
8	400266	2	Screw, 3/8-16 x 1-1/2” Hex Head	
9	400190	2	Screw, 5/16-18 x 1-1/4” Hex Head	
10	366653	2	Spacer	
11	445816	2	Nut, 5/16-18 Nylock	
12	2198162	2	Spring, Extension	
13	2192762.7	2	Plate, Deck Stop	
14	2192763.7	2	Bracket, Deck Stop	Side Discharge Decks
14	2192777.7	2	Bracket, Deck Stop	Rear Discharge Decks
15	64139-14	8	Screw, 5/16-18 x 7/8” Flange Head	
16	64141-6	10	Nut, 5/16-18 Whiz Lock Flange	
17	523126	2	Bumper, Rubber	

> Change from previous revision



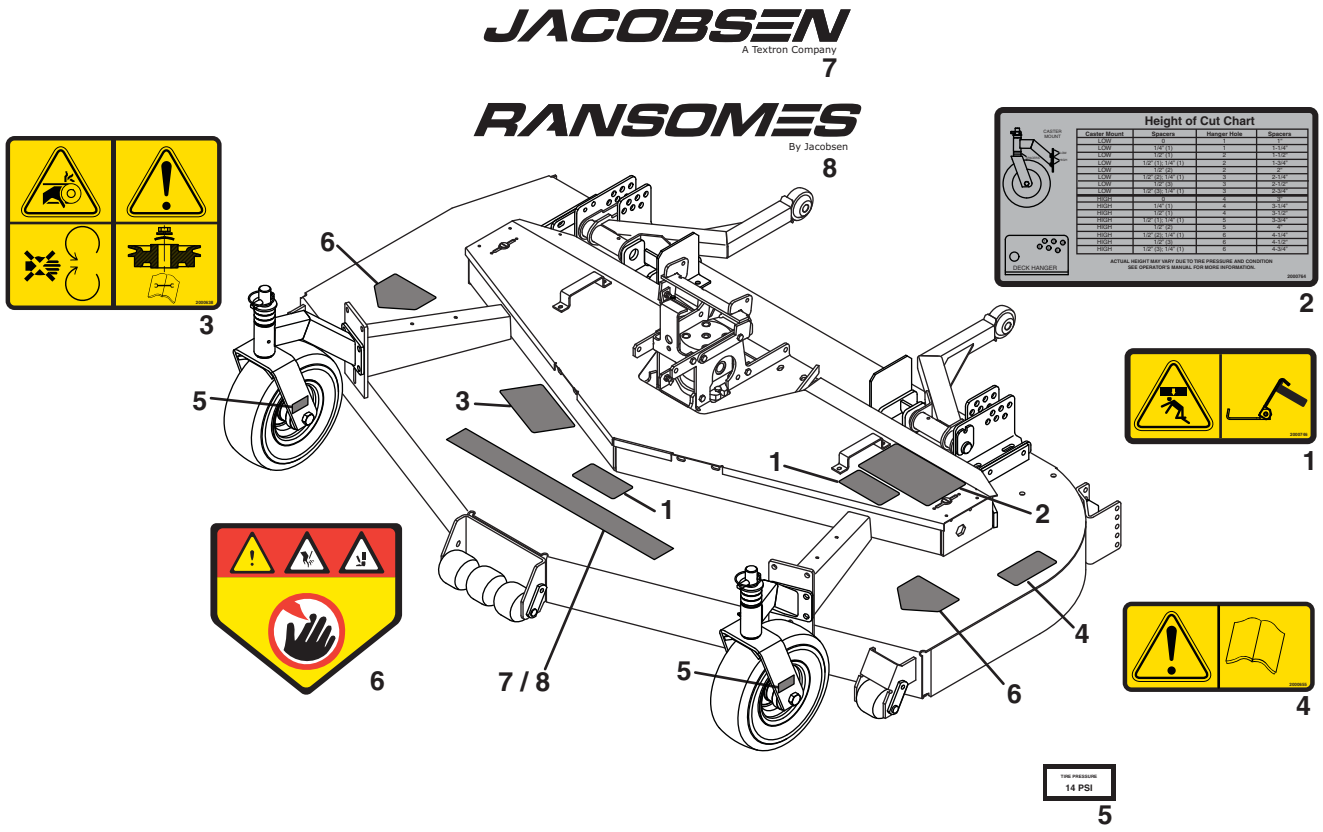
Item	Part No.	Qty.	Description	Serial Numbers/Notes
●◆ 1	2000746	2	Decal, Hook Latch	
◆ 2	2000764	1	Decal, Height of Cut	
● 3	2000638	1	Decal, Rotating Parts/Blade	
● 4	2000655	1	Decal, Read Manual	
5	00253	2	Decal, 14 PSI	
● 6	4164381	1	Decal, Blade Contact/Thrown Object	
7	4124792	1	Decal, Jacobsen	
8	4137628	1	Decal, Ransomes	
●	Included with Decks 2721961 (63” Side Discharge) and 2721963 (72” Side Discharge)			
◆	Included with Belt Covers 2721965 (63” Side Discharge) and 2721967 (72” Side Discharge)			

> Change from previous revision

31.1 Deck Decals

Rear Discharge Decks

Serial No. 956023 - All
Serial No. 957234 - All



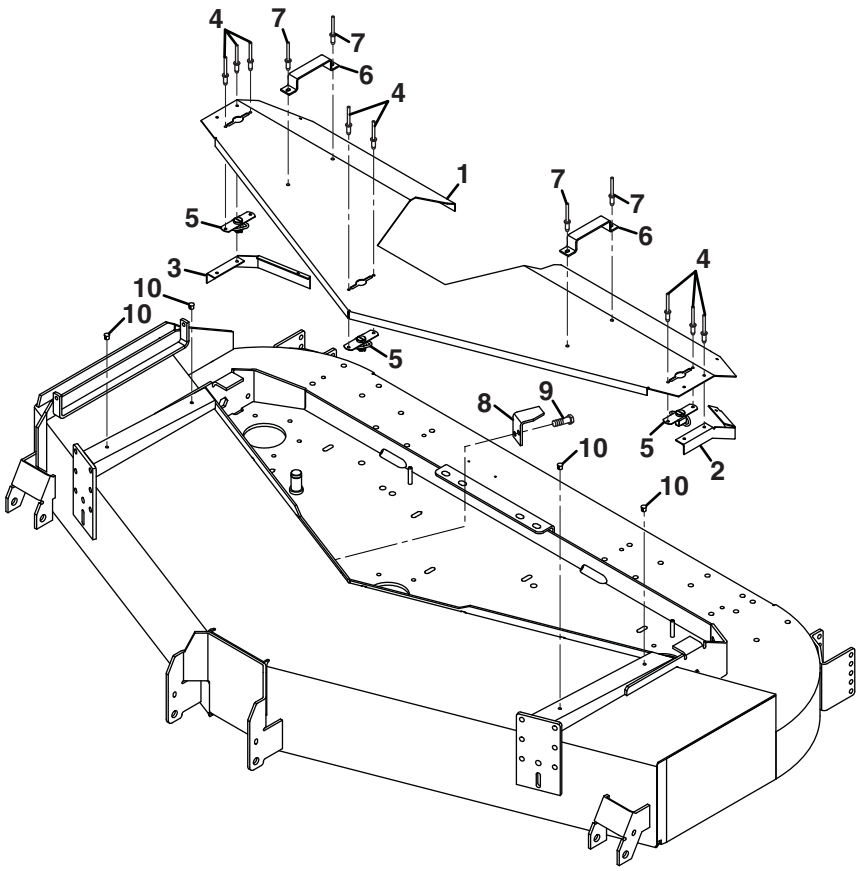
Item	Part No.	Qty.	Description	Serial Numbers/Notes
●◆ 1	2000746	2	Decal, Hook Latch	
◆ 2	2000764	1	Decal, Height of Cut	
● 3	2000638	1	Decal, Rotating Parts/Blade	
● 4	2000655	1	Decal, Read Manual	
5	00253	2	Decal, 14 PSI	
● 6	4164381	1	Decal, Blade Contact/Thrown Object	
7	4124792	1	Decal, Jacobsen	
8	4137628	1	Decal, Ransomes	
●	Included with Decks 2721960 (60” Rear Discharge) and 2721962 (72” Rear Discharge)			
◆	Included with Belt Covers 2721964 (60” Rear Discharge) and 2721966 (72” Rear Discharge)			

> Change from previous revision

32.1 Belt Cover

Side Discharge Decks

Serial No. 956314 - All
Serial No. 957233 - All



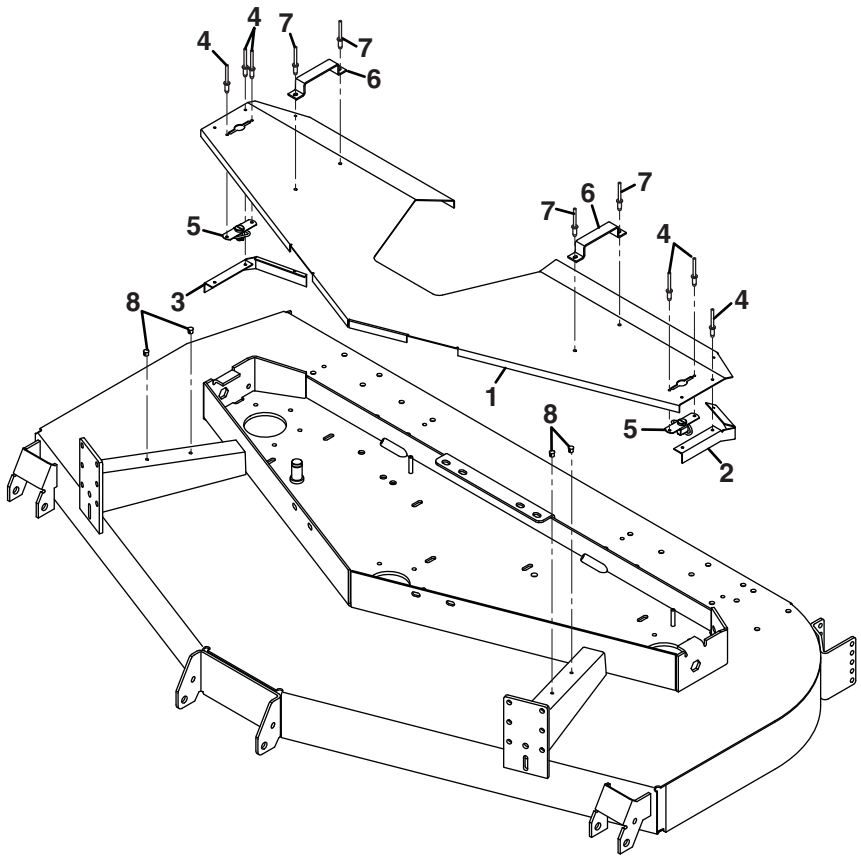
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2721964	1	Belt Cover	63” Side Discharge Decks
1	2721966	1	Belt Cover	72” Side Discharge Decks
2	2192719.7	1	Left Side Belt Cover Plate	63” Side Discharge Decks
2	2192672.7	1	Left Side Blet Cover Plate	72” Side Discharge Decks
3	2192720.7	1	Right Side Belt Cover Plate	63” Side Discharge Decks
3	2192673.7	1	Right Side Belt Cover Plate	72” Side Discharge Decks
4	64215-05	10	Pop Rivet, #64	
5	178111	2	Spring Latch	63” Side Discharge Decks
5	178111	3	Spring Latch	72” Side Discharge Decks
6	32418-04	2	Handle	
7	64215-07	4	Pop Rivet, #84	
8	2192671.7	1	Bracket, Latch	72” Side Discharge Decks Only
9	64197-016	2	Screw, 3/8-16 x 1/2” Thread Forming	72” Side Discharge Decks Only
10	48517-06	4	Hole Plug, 1/4”	

> Change from previous revision

33.1 Belt Cover

Rear Discharge Decks

Serial No. 956023 - All
Serial No. 957234 - All

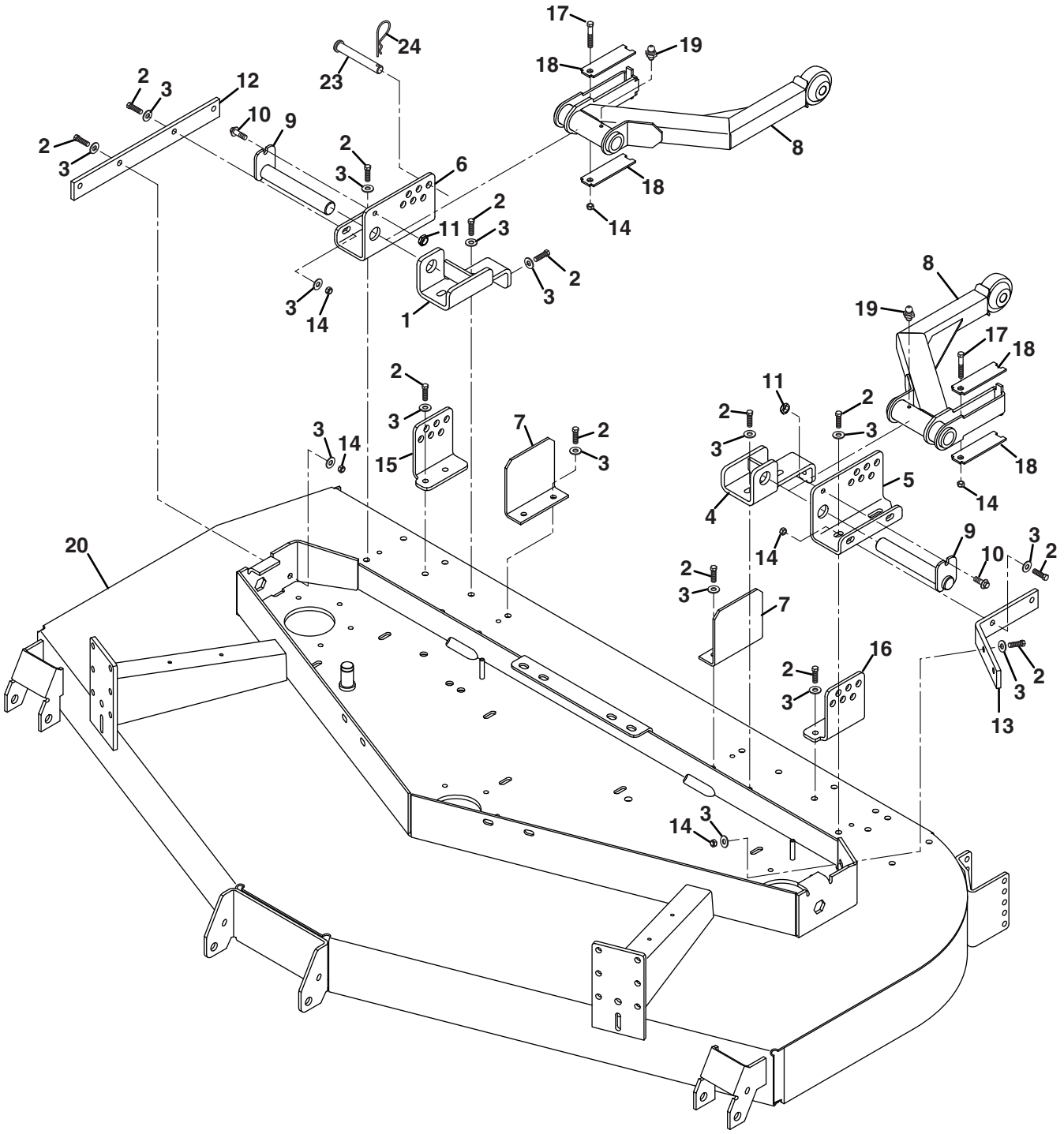


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2721964	1	Belt Cover	60” Rear Discharge Decks
1	2721966	1	Belt Cover	72” Rear Discharge Decks
2	2192334.7	1	Left Side Belt Cover Plate	60” Rear Discharge Decks
2	2192318.7	1	Left Side Blet Cover Plate	72” Rear Discharge Decks
3	2192335.7	1	Right Side Belt Cover Plate	60” Rear Discharge Decks
3	2192319.7	1	Right Side Belt Cover Plate	72” Rear Discharge Decks
4	64215-05	10	Pop Rivet, #64	
5	178111	2	Spring Latch	
6	32418-04	2	Handle	
7	64215-07	4	Pop Rivet, #84	
8	48517-06	4	Hole Plug, 1/4”	

> Change from previous revision

34.1 Push Arms

Serial No. 956023 - All
Serial No. 956314 - All
Serial No. 957233 - All
Serial No. 957234 - All

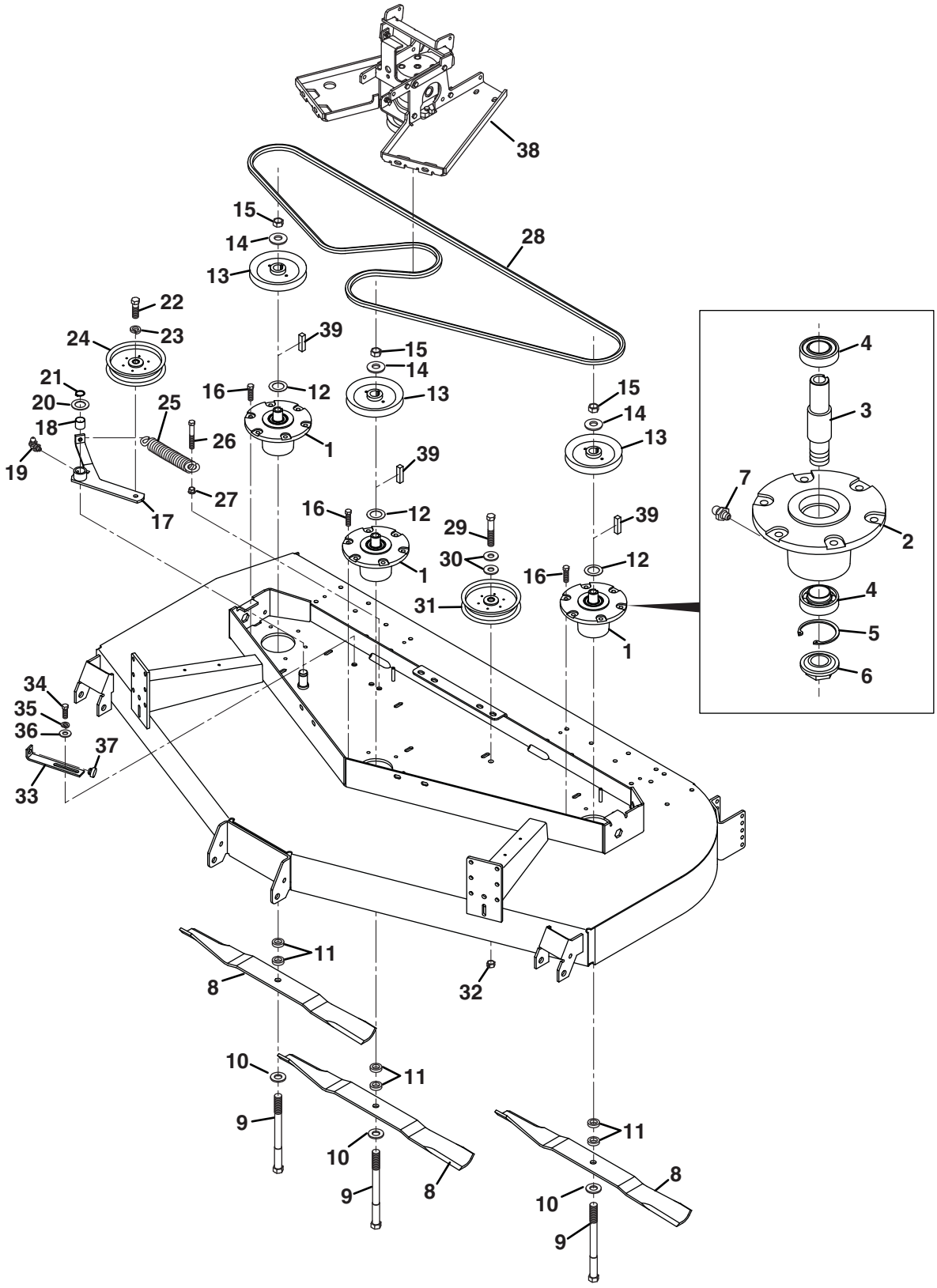


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2196178.7	1	Mount, Right Side Push Arm	
2	3003926	26	Screw, M10-1.5 x 30 mm Hex Head	
3	452008	34	Flat Washer, 3/8	
4	2196177.7	1	Mount, Left Side Push Arm	
5	2192713.7	1	Bracket, Left Side Push Arm	
6	2192714.7	1	Bracket, Right Side Push Arm	
7	2192774.7	2	Bracket, Deck Stop	
8	2196176.7	2	Push Arm	
9	2196180.7	2	Pin, Push Arm	
10	64139-14	2	Screw, 5/16-18 x 7/8” Flange Head	
11	445816	2	Nut, 5/16-18 Hex Head	
12	2192725.7	1	Bracket, Right Side Mount Brace	Used on 60” Rear Discharge Decks
12	2192727.7	1	Bracket, Right Side Mount Brace	Used on 63” Side Discharge Decks
12	2192716.7	1	Bracket, Right Side Mount Brace	Used on 72” Decks
13	2192724.7	1	Bracket, Left Side Mount Brace	Used on 60” Rear Discharge Decks
13	2192726.7	1	Bracket, Left Side Mount Brace	Used on 63” Side Discharge Decks
13	2192715.7	1	Bracket, Left Side Mount Brace	Used on 72” Decks
14	64237-03	10	Nut, M10-1.5 Nylock Hex	
15	2192565.7	1	Bracket, Right Side Height Adjust	
16	2192576.7	1	Bracket, Left Side Height Adjust	
17	3000352	2	Screw, M10-1.5 x 60 mm Hex Head	
18	2192267.7	AR	Spacer, Height Adjust	
19	471214	4	Grease Fitting, Striaght	
20	2721960	1	60” Rear Discharge Deck	Used on 60” Rear Discharge Decks
20	2721961	1	63” Side Discharge Deck	Used on 63” Side Discharge Decks
20	2721962	1	72” Rear Discharge Deck	Used on 72” Rear Discharge Decks
20	2721963	1	72” Side Discharge Deck	Used on 72” Side Discharge Decks
21	4191260	1	• Right Side Roller Support	
22	4192161	1	• Left Side Roller Support	
23	461495	1	Clevis Pin, 1/2 x 2-5/8”	
24	460335	2	Hair Pin, Cotter	

> Change from previous revision

35.1 Deck Drive

Serial No. 956023 - All
Serial No. 956314 - All
Serial No. 957233 - All
Serial No. 957234 - All

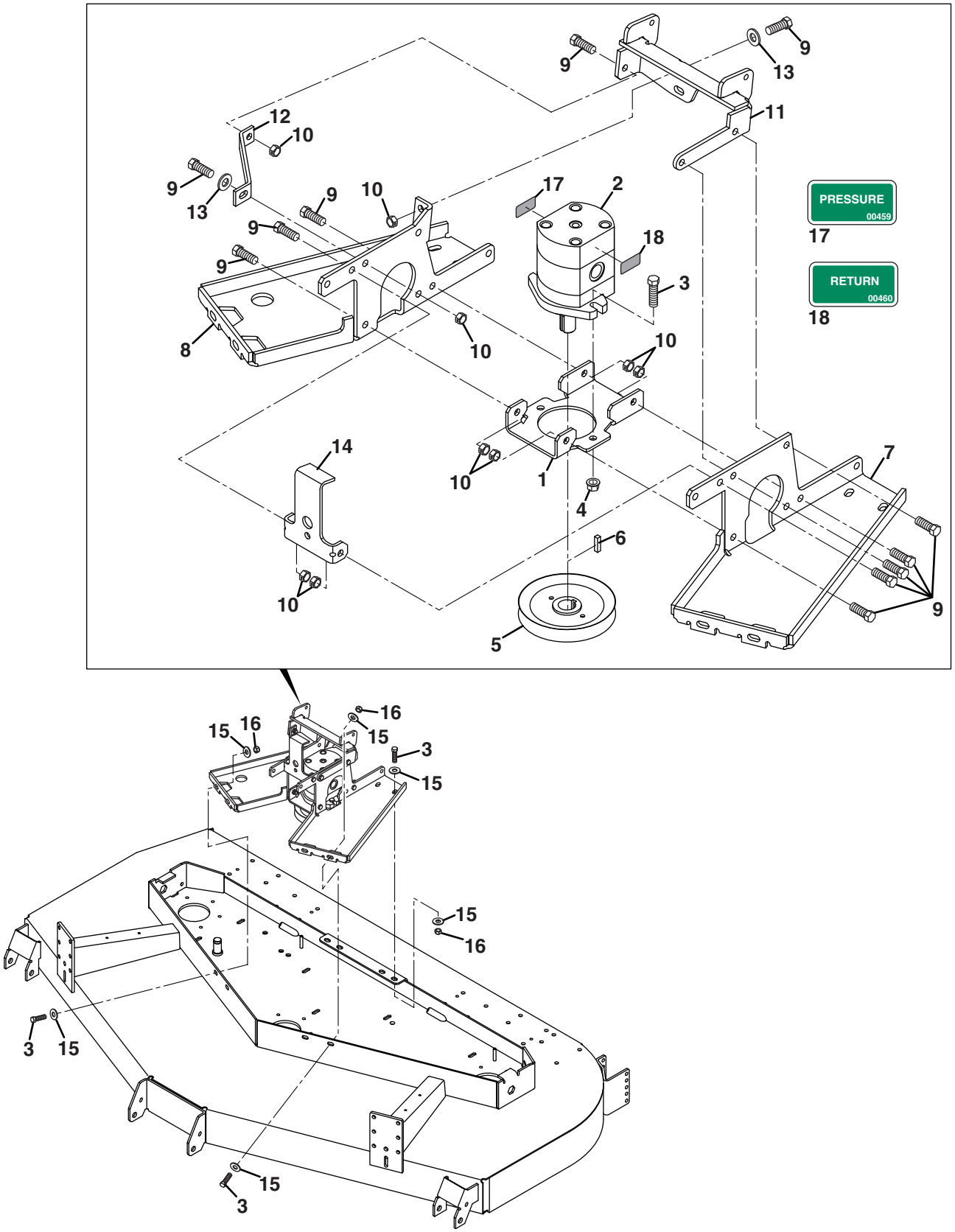


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4131977	3	Spindle Housing Assembly	
2	4131975	1	• Spindle Housing	
3	33179-02	1	• Spindle	
4	4131974	2	• Bearing, Sealed	
5	458115	1	• Snap Ring, 2-9/32” Internal	
6	38315	1	• Nut, Spindle	
7	471216	1	• Grease Fitting. Straight	
8	112243-03	3	Blade, Low Lift21”	Used on 60” Rear Discharge Deck
8	112243-04	3	Blade, Low Lift 25”	Used on 72” Rear Discharge Deck
8	112111-05	3	Blade, High Lift 22”	Used on 63” Side Discharge Deck
8	112111-04	3	Blade, High Lift 25”	Used on 72” Side Discharge Deck
9	33049-05	3	Blade Bolt	
10	453020	3	Flat Washer, 5/8”	
11	64163-12	6	Flat Washer	
12	62464-7A	3	Washer, Thrust	
13	198027	3	Pulley, 6” Diameter	
14	64209-03	3	Spring Washer	
15	443128	3	Nut, 5/8-11 Hex	
16	64197-005	18	Screw, 3/8-16 x 1-1/4” Hex Head	
17	2720273.7	1	Belt Idler	
18	65103A	1	• Bearing Bushing	
19	35027N	1	• Grease Fitting, 90°	
20	365409	1	Flat Washer, 7/8”	
21	458040	1	Snap Ring, 7/8” External	
22	400442	1	Screw, 1/2-20 x 1-1/2” Hex Head	
23	446154	1	Lockwasher, 1/2 Heavy	
24	128169	1	Pulley, Idler	
25	85006-1A	1	Spring, Mule Jack	
26	3000352	1	Screw, M10-1.5 x 60 mm Hex Head	
27	64246-03	1	Nut, M10-1.5 Whiz Lock Flange	
28	2198121	1	Belt, 125” Deck Drive	Used on 60” Rear Discharge Deck
28	198037	1	Belt, 127-1/2” Deck Drive	Used on 63” Side Discharge Deck
28	2720948	1	Belt, 134-1/4” Deck Drive	Used on 72” Decks
29	400416	1	Screw, 1/2-13 x 2-1/2” Hex Head	Used on 72” Decks Only
30	445057	2	Flat Washer, 1/2	Used on 72” Decks Only
31	128169	1	Pulley, Idler	Used on 72” Decks Only
32	64229-05	1	Nut, 1/2-13 Nylock Hex	Used on 72” Decks Only
33	192107.7	1	Bracket, Mounting	
34	361619	1	Screw, M10-1.5 x 25 mm Hex Head	
35	800488	1	Lockwasher, M10	
36	452008	1	Flat Washer, 3/8	
37	810149	1	Bumper, Rubber	
38	REF	1	Deck Motor Assembly	See 36.1
39	354774	3	Key, 1/4 x 1/4 x 1”	

> Change from previous revision

36.1 Deck Drive

Serial No. 956023 - All
Serial No. 956314 - All
Serial No. 957233 - All
Serial No. 957234 - All



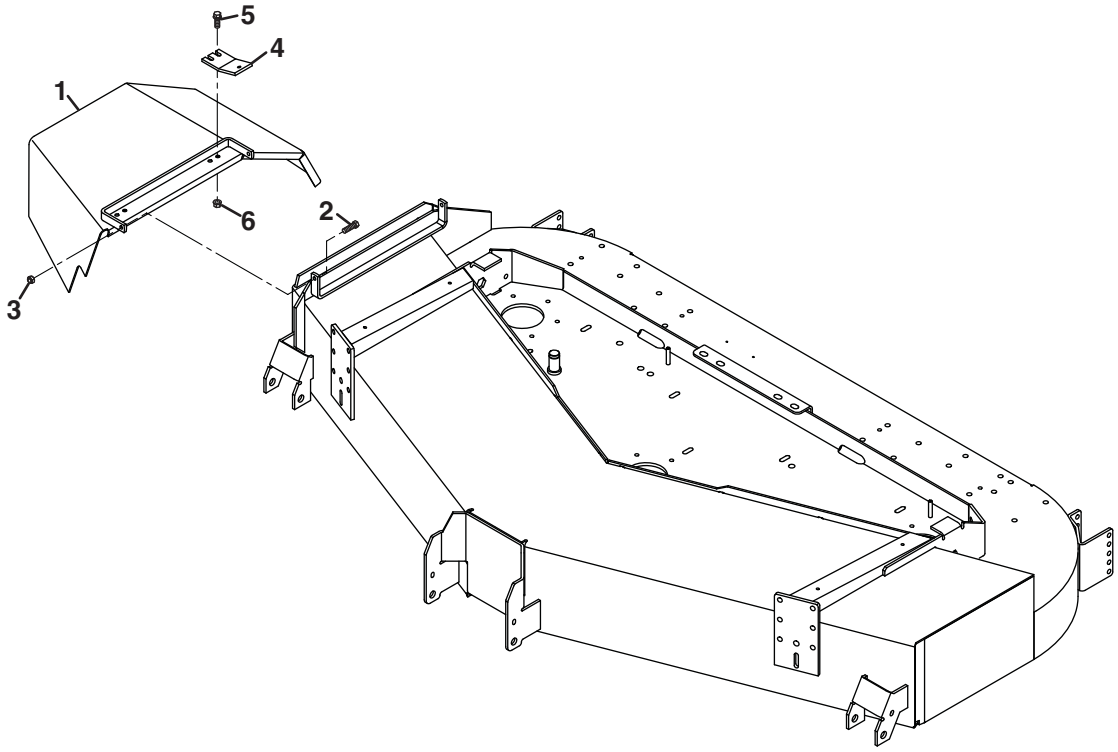
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2192579.7	1	Bracket, Gear Motor	
2	2218152-05	1	Motor, 20cc	
	2218152-04	1	• Seal Kit	
3	3003926	10	Screw, M10-1.5 x 30 mm Hex Head	
4	64246-03	2	Nut, M10-1.5 Whiz Lock	
5	2198229	1	Pulley, 6-1/2”	Used on 60” and 63” Decks
5	2198228	1	Pulley, 5-1/2”	Used on 72” Decks
6	354774	1	Key, 1/4 x 1/4 x 1”	
7	2192769.7	1	Mount, Left Side Motor	Used on 60” Rear Discharge Decks
7	2192721.7		Mount, Left Side Motor	Used on 63” Side Discharge Decks
7	2192650.7	1	Mount, Left Side Motor	Used on 72” Decks
8	2192770.7	1	Mount, Right Side Motor	Used on 60” Rear Discharge Decks
8	2192722.7	1	Mount, Right Side Motor	Used on 63” Side Discharge Decks
8	2192651.7	1	Mount, Right Side Motor	Used on 72” Decks
9	400262	12	Screw, 3/8-16 x 1” Hex Head	
10	445806	12	Locknut, 3/8-16 Hex	
11	2196212.7	1	Top Mount	Used on 60” and 63” Decks
11	4204642	1	Top Mount	Used on 72” Decks
12	2192305.7	1	Brace, Deck Anchor	Used on 60” and 63” Decks
12	2192317.7	1	Brace, Deck Anchor	Used on 72” Decks
13	453011	3	Flat Washer, 3/8	
14	2192390.7	1	Deck Hook	Used on 60” and 63” Decks
14	2192239.7	1	Deck Hook	Used on 72” Decks
15	452008	16	Flat Washer, 3/8	
16	64237-03	8	Nut, M10-1.5 Nylock Hex	
17	00459	1	Decal, Pressure	
18	00460	1	Decal, Return	

> Change from previous revision

37.1 Discharge Chute

Side Discharge Decks

Serial No. 956314 - All
Serial No. 957233 - All

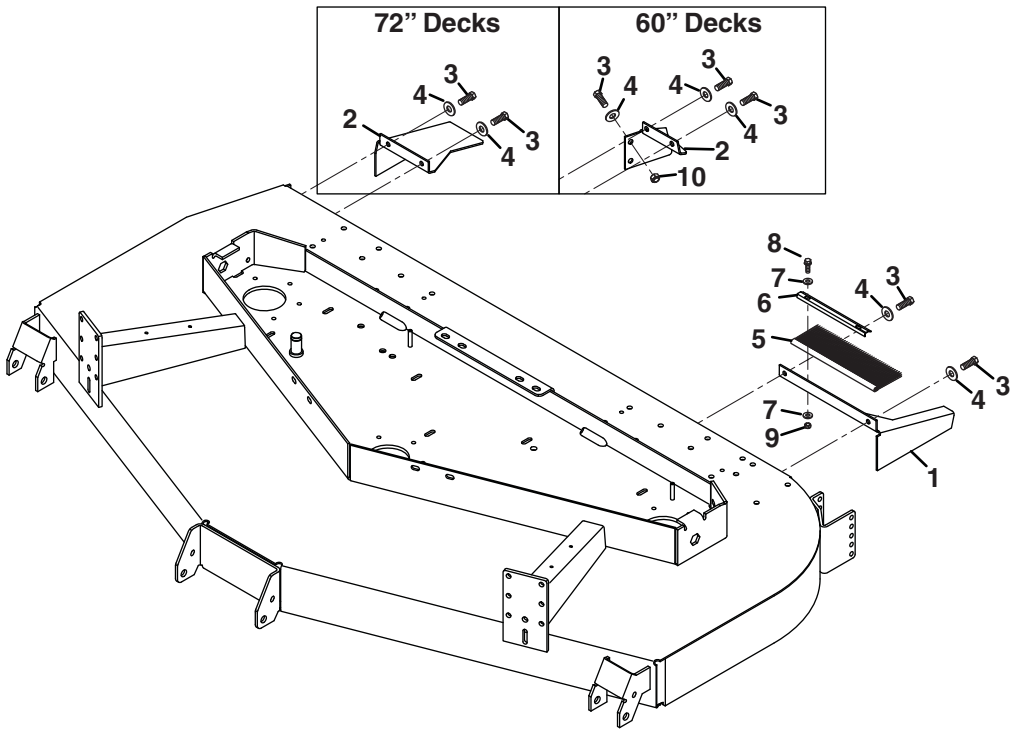


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	176098.7	1	Discharge Chute	63” Side Discharge Decks
1	146127.7	1	Discharge Chute	72” Side Discharge Decks
2	400188	2	Screw, 5/16-18 x 1” Hex Head	
3	445816	2	Locknut, 5/16-18 Nylon	
4	172257.7	2	Stop-Chute	
5	64139-08	4	Screw, 5/16-18 x 3/4” Flange Head	
6	64141-6	4	Nut, 5/16-18 Whiz Lock Flange	

> Change from previous revision

38.1 Foot Guards

Rear Discharge Decks



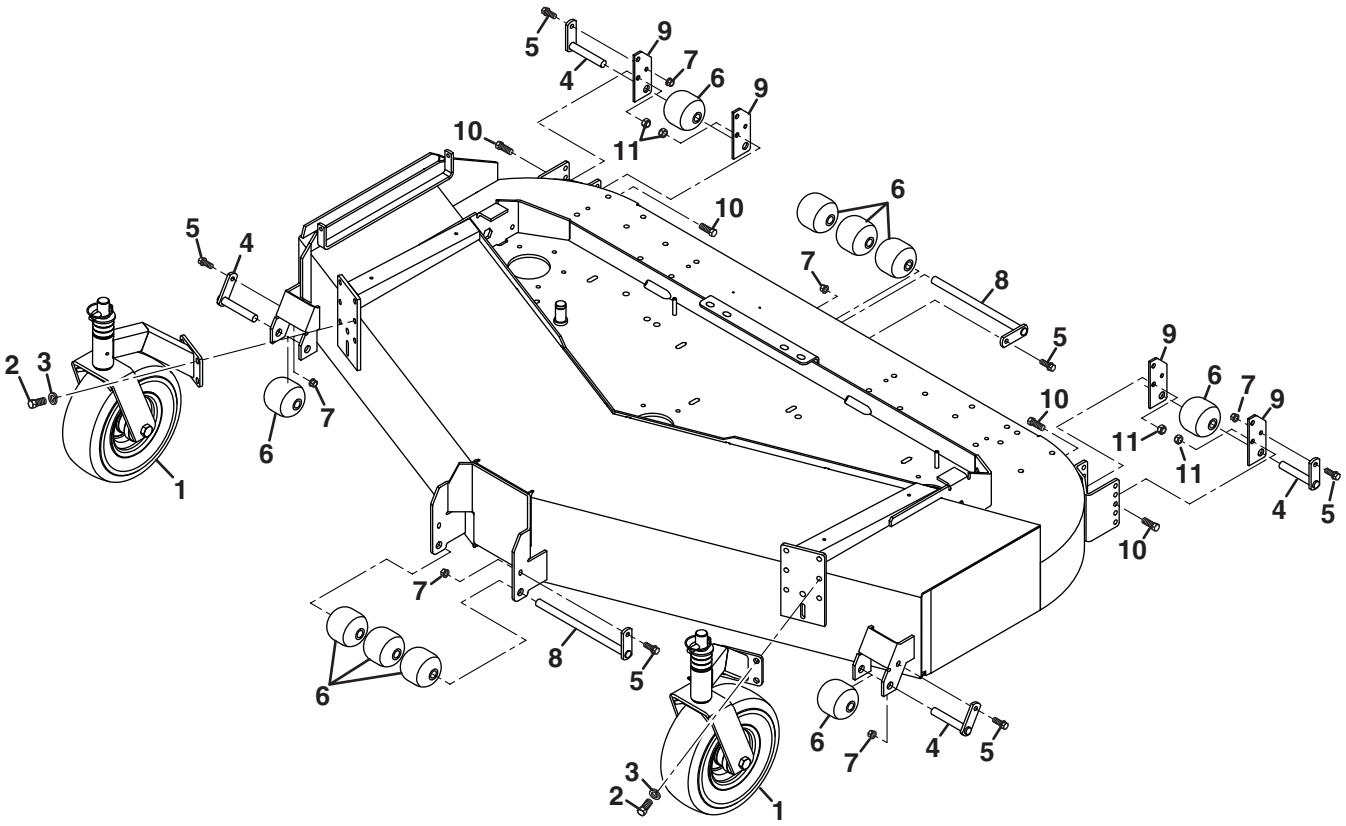
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2192230.7	1	Left Side Foot Guard	72” Rear Discharge Decks Only
2	2192229.7	1	Right Side Foot Guard	60” Rear Discharge Decks
2	2192231.7	1	Right Side Foot Guard	72” Rear Discharge Decks
3	361619	6	Screw, M10-1.5 x 25 mm Hex Head	60” Rear Discharge Decks
3	361619	4	Screw, M10-1.5 x 25 mm Hex Head	72” Rear Discharge Decks
4	452008	6	Flat Washer, 3/8	60” Rear Discharge Decks
4	452008	4	Flat Washer, 3/8	72” Rear Discharge Decks
5	118107	1	Brush	72” Rear Discharge Decks Only
6	112378.7	1	Retainer, Brush	72” Rear Discharge Decks Only
7	453023	4	Flat Washer, 1/4	72” Rear Discharge Decks Only
8	64123-114	2	Screw, 1/4-20 x 3/4” Flange Head	72” Rear Discharge Decks Only
9	445805	2	Nut, 1/4-20 Nylock Hex	72” Rear Discharge Decks Only
10	64237-03	2	Nut, M10-1.5 Nylock Hex	60” Rear Discharge Decks Only

> Change from previous revision

39.1 Caster Wheels and Rollers

Serial No. 956314 - All
Serial No. 957233 - All

Side Discharge Decks



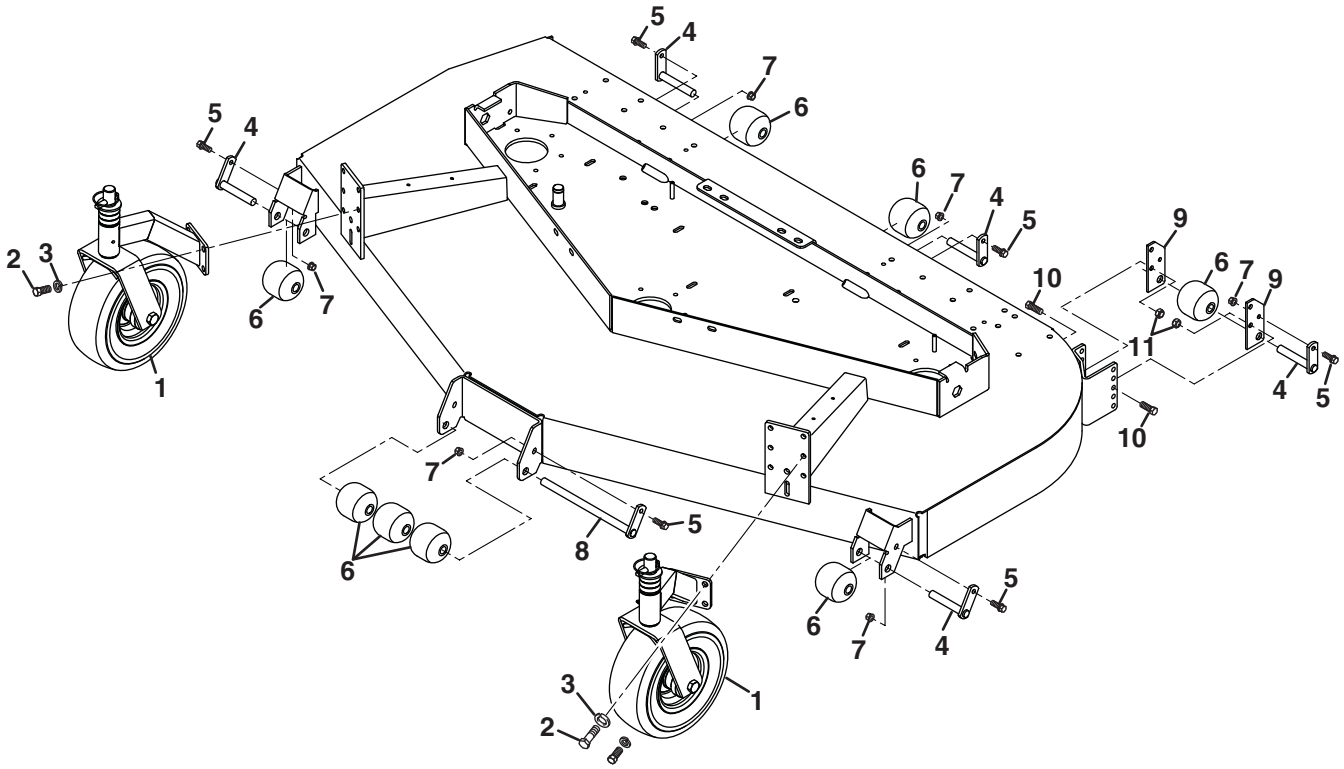
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2721668	2	Caster Wheel Assemblies	See 41.1
2	400330	8	Screw, 7/16-14 x 3/4” Hex Head	
3	446148	8	Lockwasher, 7/16	
4	46335	4	Shaft, Roller	
5	64139-08	6	Screw, 5/16-18 x 3/4” Flange Head	
6	2198153	10	Roller, 3” Anti Scalp	
7	64141-6	6	Nut, 5/16-18 Whiz Lock Flange	
8	2196190	2	Shaft, Roller	
9	142088.7	4	Bracket, Roller	
10	361619	8	Screw, M10-1.5 x 30 mm Hex Head	
11	64237-03	8	Nut, M10-1.5 Nylock Hex	

> Change from previous revision

40.1 Caster Wheels and Rollers

Serial No. 956023 - All
Serial No. 957234 - All

Rear Discharge Decks



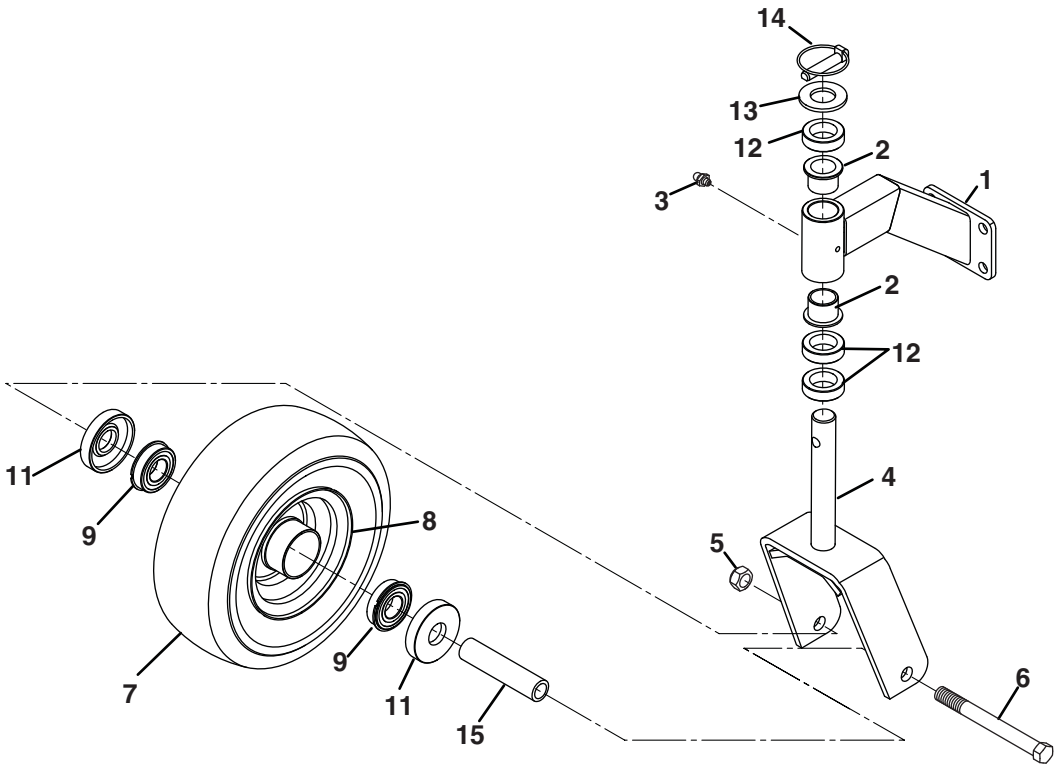
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2721668	2	Caster Wheel Assemblies	See 41.1
2	400330	8	Screw, 7/16-14 x 3/4” Hex Head	
3	446148	8	Lockwasher, 7/16	
4	46335	5	Shaft, Roller	
5	64139-08	6	Screw, 5/16-18 x 3/4” Flange Head	
6	2198153	7	Roller, 3” Anti Scalp	60” Rear Discharge Decks
6	2198153	8	Roller, 3” Anti Scalp	72” Rear Discharge Decks
7	64141-6	6	Nut, 5/16-18 Whiz Lock Flange	
8	146067	1	Shaft, Roller	60” Rear Discharge Decks
8	2196190	1	Shaft, Roller	72” Rear Discharge Decks
9	142088.7	4	Bracket, Roller	
10	361619	8	Screw, M10-1.5 x 30 mm Hex Head	
11	64237-03	8	Nut, M10-1.5 Nylock Hex	

> Change from previous revision

41.1 Caster Wheel

Part Number 2721668

Serial No. 956023 - All
Serial No. 956314 - All
Serial No. 957233 - All
Serial No. 957234 - All

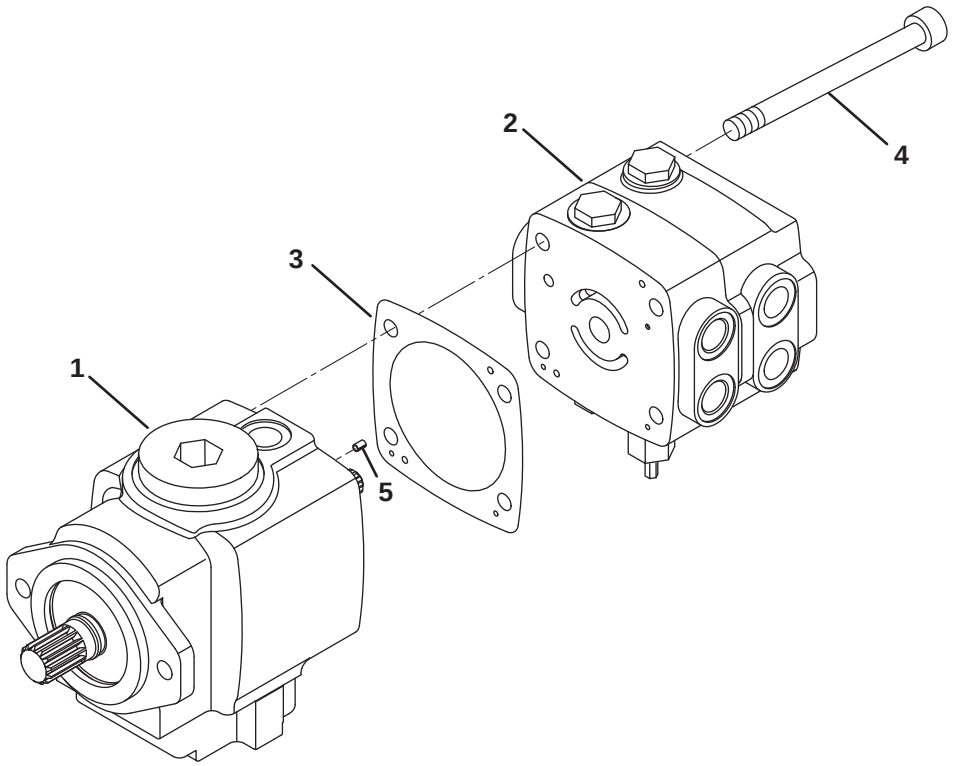


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2722321	1	Support	
2	48053-01	2	• Bearing, Flanged	
3	471214	1	• Grease Fitting, Straight	
4	2196167.7	1	Caster Yoke	
5	4112921	1	Nut, 5/8-11 Nylock	
6	64123-212	1	Screw, 5/8-11 x 6” Hex	
	4250770	1	Wheel and Tire Assembly	
7	4250772	1	• Tire, 11 x 4.0-5	
8	4250771	1	• Rim with Bearing	
9	272228.03	2	• • Bearing with Snap Ring	
10	360111	1	• Valve, Inflation (Not Shown)	
11	2722231	2	Spacer, End	
12	64163-22	3	HOC Spacer, 1/2”	
13	455004	1	HOC Spacer, 1/4	
14	3001978	1	Quick Pin	
15	2722230-01	1	• Spanner, Wheel	

> Change from previous revision

42.1 Traction Pump

Part Number 4215101



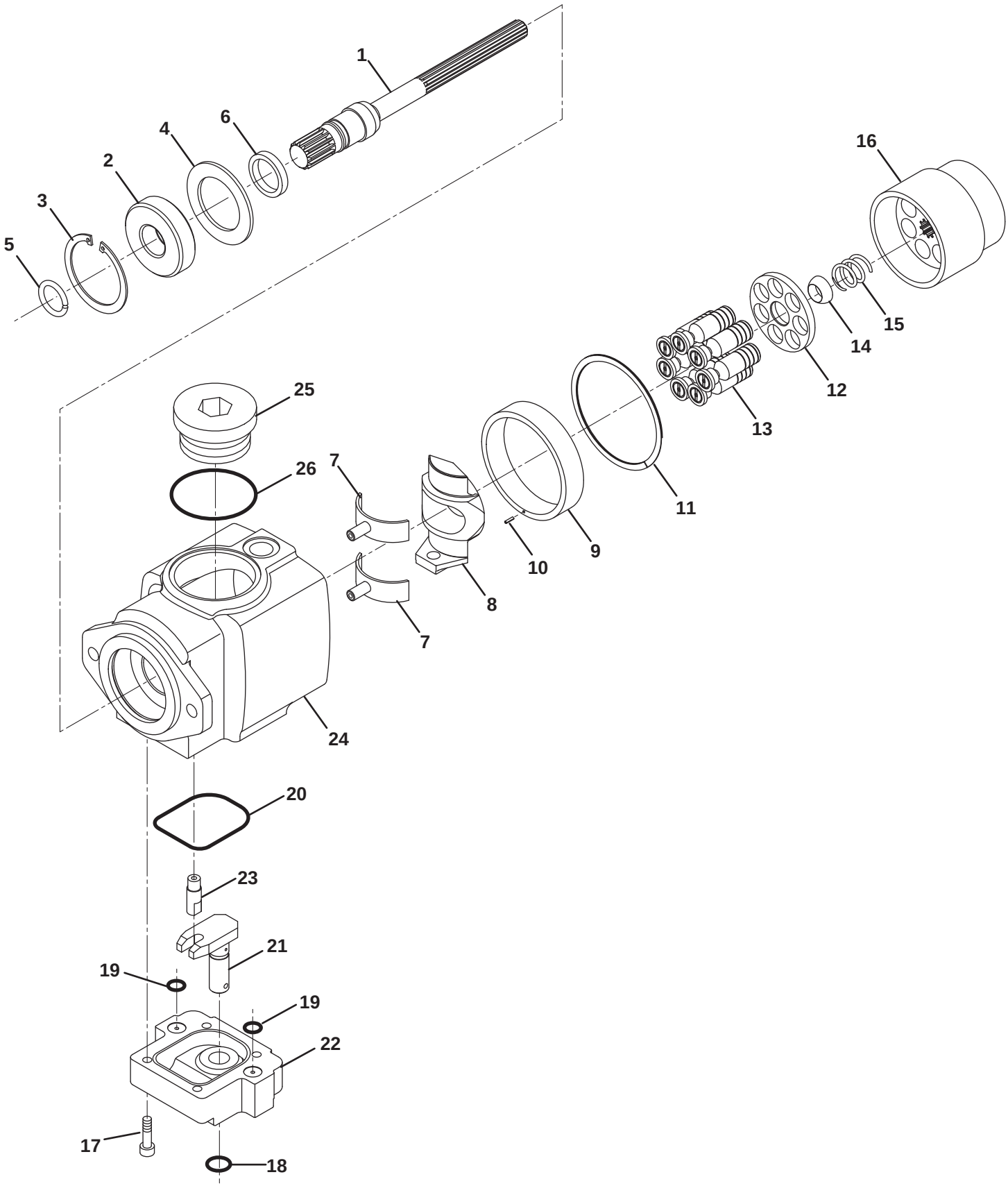
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	N/S	1	Main Case and Input Shaft	See 43.1
2	N/S	1	Valve Plate and Charge Pump	See 44.1
● 3	N/S	1	Gasket, Valve Plate	
4	N/S	4	Screw, 3/8-16 x 3-1/2” Socket Head	
5	N/S	2	Pin, Alignment	
●	Included in Seal Kit 4119859			

> Change from previous revision

Serial No. All

43.1 Main Case and Input Shaft

Part Number 4215101 (Continued)



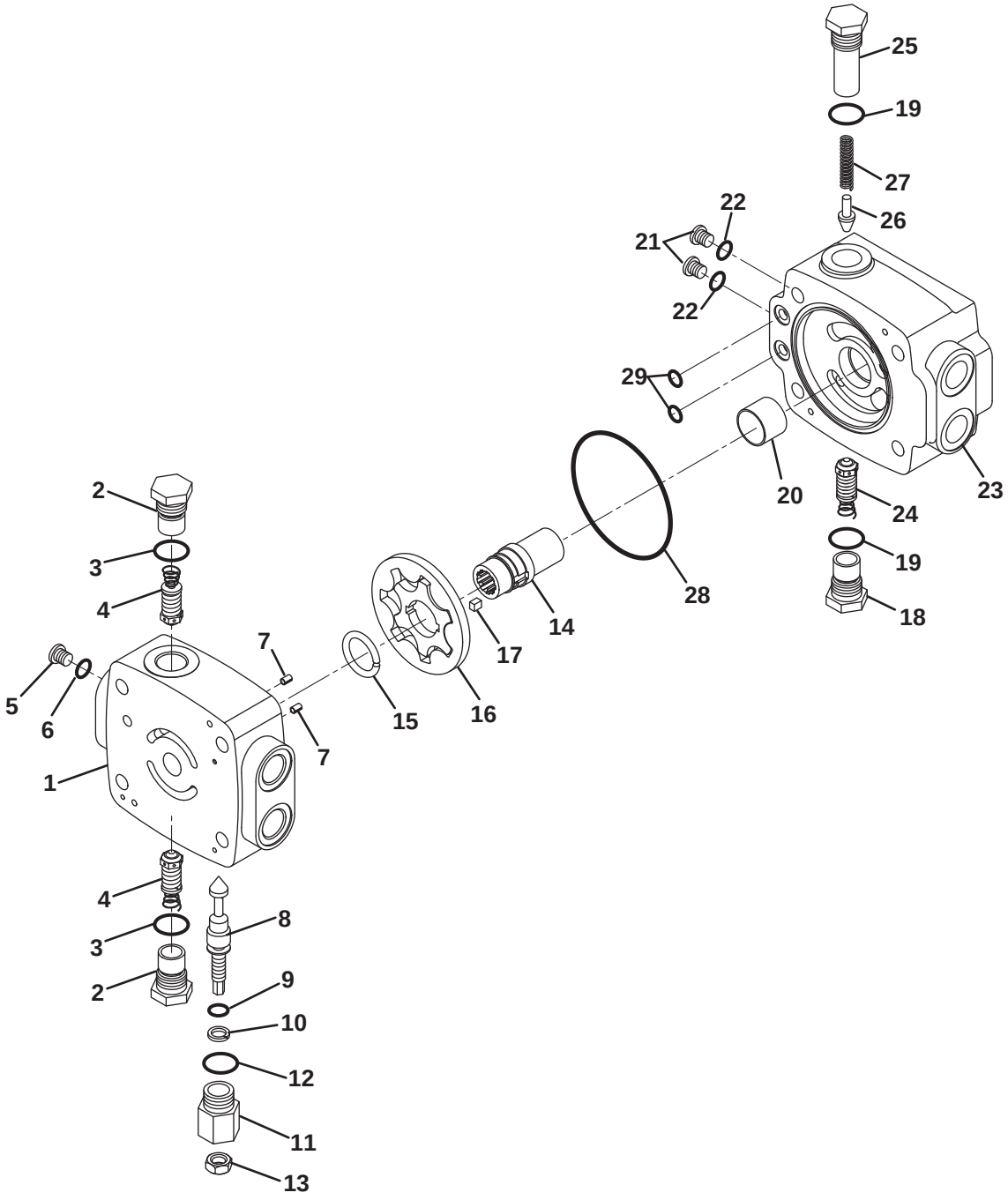
Item	Part No.	Qty.	Description	Serial Numbers/Notes
	2721557	1	Shaft and Bearing Assembly	
1	N/S	1	• Driveshaft with SAE Spline	
2	N/S	1	• Bearing, Front Driveshaft	
3	N/S	1	• Ring, Retaining	
4	N/S	1	• Retainer, Seal	
5	N/S	1	• Ring, Bearing Retaining	
● 6	N/S	1	Seal, Shaft	
	4119336	1	Kit, Saddle Bearing	
7	N/S	2	• Bearing, Saddle	
8	4119331	1	Swashblock	
	4119335	1	Rotating Group Bearing Assembly	
9	N/S	1	• Bearing, Cylinder Hydrodynamic	
10	N/S	1	• • Pin, Roll	
11	N/S	1	• Ring, Retainer	
	4119334	1	Rotating Group	
12	N/S	1	• Retainer, Shoe	
13	N/S	7	• Assembly, Piston and Shoe	
14	N/S	1	• Ball, Fulcrum	
15	N/S	1	• Spring, Shoe Retainer	
16	N/S	1	• Barrel, Cylinder	
	N/S	1	Control Housing Assembly	
17	N/S	4	• Screw, 1/4-20 x 1” Socket Head	
● 18	N/S	1	• O-Ring	
● 19	N/S	2	• O-Ring	
● 20	N/S	1	• O-Ring, Control Housing	
21	N/S	1	• Assembly, Arm and Pintle	
22	N/S	1	• Housing, Control	
23	N/S	1	• Pin, Control	
24	N/S	1	Main Case	
25	2721564	1	• Plug, Access	
● 26	N/S	1	• O-Ring	
●	Included in Seal Kit 4149859			

> Change from previous revision

Serial No. All

44.1 Valve Plate and Charge Pump

Part Number 4197203 (Continued)



Item	Part No.	Qty.	Description	Serial Numbers/Notes
	2721560	1	Front Valve Plate Assembly	
1	N/S	1	• Valve Plate	
2	N/S	2	• Cap, Relief Valve	
● 3	N/S	2	• O-Ring	
4	4230540	2	• Relief Valve, 3625 psi	
5	N/S	1	• Plug, #3	
● 6	N/S	1	• O-Ring	
7	N/S	2	• Pin, Locating	
	5003497	1	• Tow Valve Assembly	
8	N/S	1	• • Stem, Tow Valve	
● 9	N/S	1	• • O-Ring	
● 10	N/S	1	• • Backup Ring	
11	N/S	1	• • Bonnet, Tow Valve	
● 12	N/S	1	• • O-Ring	
13	N/S	1	• • Nut, 3/8-24 Hex Jam	
	4215102	1	Gerotor and Coupling	
14	N/S	1	• Coupling, Gerotor	
15	N/S	1	• Ring, Retaining	
16	N/S	1	• Assembly, Gerotor Pump	
17	N/S	1	• Key, Gerotor Pump	
	4229540	1	Rear Valve Plate Assembly	
18	N/S	1	• Cap, Relief Valve	
● 19	N/S	2	• O-Ring	
20	N/S	1	• Bushing, Coupling	
21	N/S	2	• Plug, #3	
● 22	N/S	2	• O-Ring	
23	N/S	1	• Rear Plate	
24	4230560	1	• Relief Valve, 915 psi Implement	
25	N/S	1	• Cap, Charge Relief	
	4238983	1	• Charge Relief Valve Kit	
26	N/S	1	• • Poppet, BPRV	
27	N/S	1	• • Spring, 60 psi Relief	
● 28	N/S	1	• O-Ring	
● 29	N/S	2	• O-Ring	

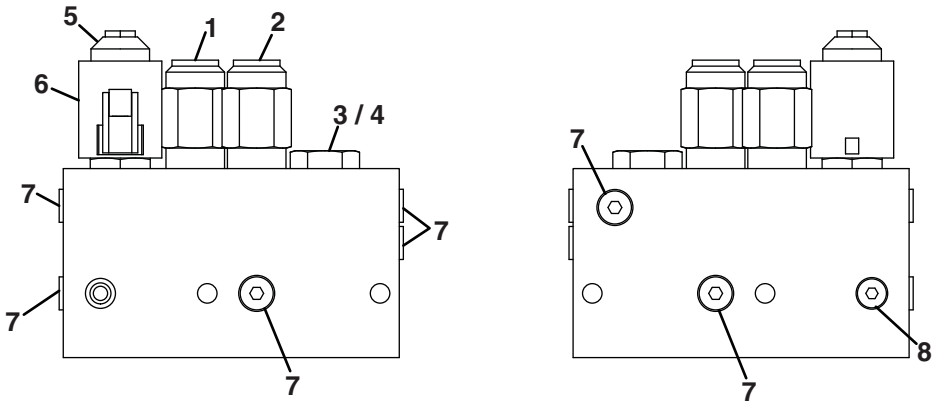
● Included in Seal Kit 4149859

> Change from previous revision

Serial No. All

45.1 Deck Valve

Part Number 4135584

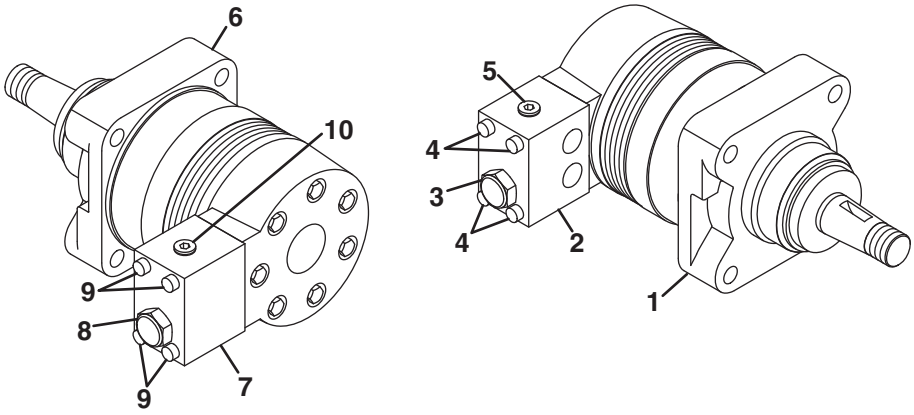


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	178102-79	1	Refief Valve, 3200 psi	
	178102-83	1	• Seal Kit	
2	178102-13	1	Relief Valve, 300 psi	
	178102-83	1	• Seal Kit	
3	2721055-01	1	Check Valve	
	178102-83	1	• Seal Kit	
4	178102-14	1	Pilot Piston	
5	178102-81	1	Solenoid Valve	
	178102-83	1	• Seal Kit	
6	4134530	1	Coil	**REFERENCE K6, See 47.1**
7	178102-61	7	Plug, -6	
	178102-84	1	• Seal Kit	
8	178102-60	1	Plug, -4	
	178102-85	1	• Seal Kit	

> Change from previous revision

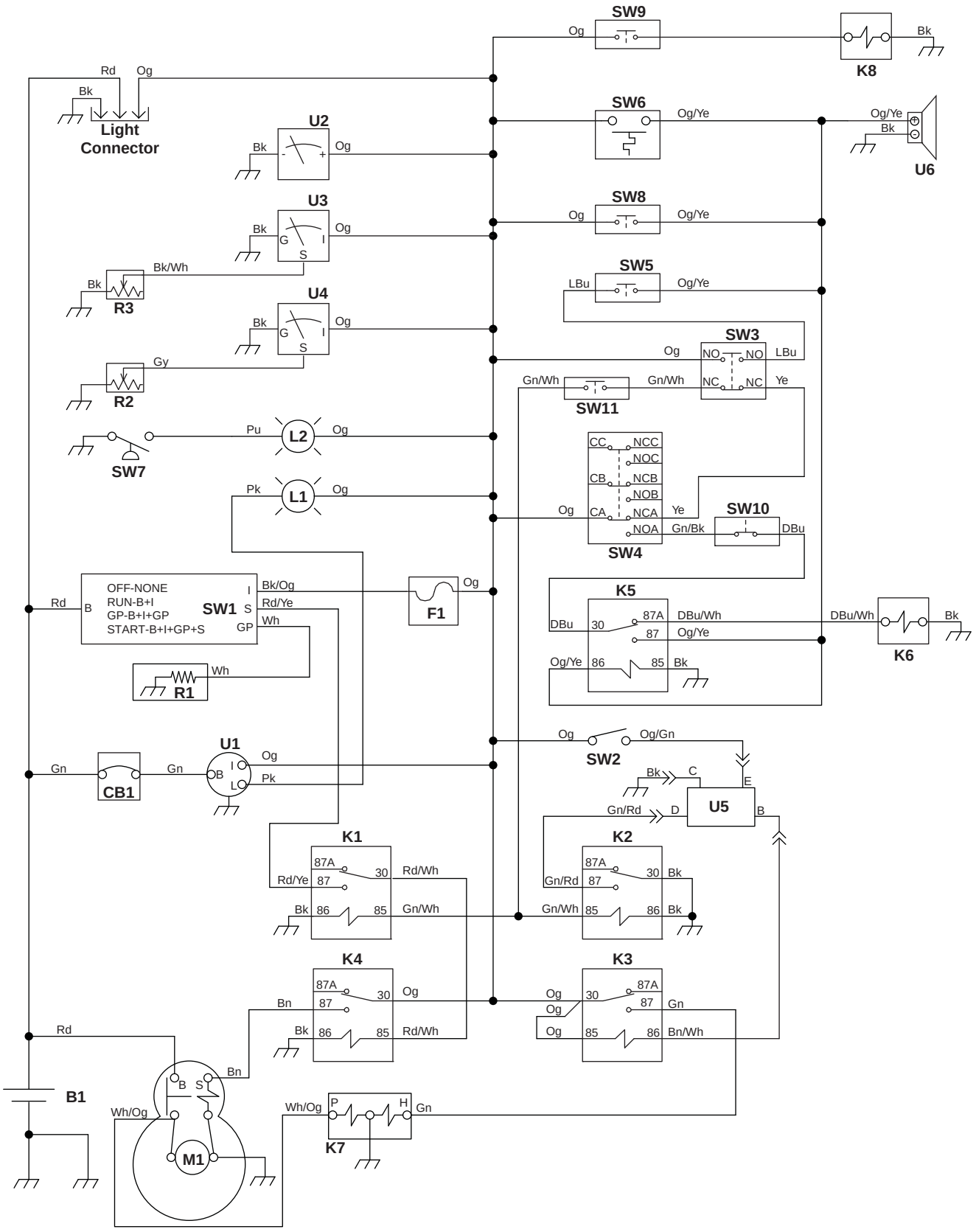
46.1 Rear Wheel Motors

Part Numbers 2721416-01 and 4114190-01



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2721416-01	1	Wheel Motor, Left Rear	
	64162-08	1	• Key, 5/16 x 1” Woodruff	
	148138	1	• Seal Kit	
2	2721430	1	• Cartridge	
3	2721430-01	1	• • Check Valve	
	2721430-02	1	• • • Seal Kit	
4	2721430-03	4	• • Bolt	
5	2721430-04	1	• • Plug	
6	4114190-01		Wheel Motor, Right Rear	
	64162-08	1	• Key, 5/16 x 1” Woodruff	
	148138	1	• Seal Kit	
7	4114189	1	• Cartridge	
8	2721430-01	1	• • Check Valve	
	2721430-02	1	• • • Seal Kit	
9	2721430-03	4	• • Bolt	
10	2721430-04	1	• • Plug	

> Change from previous revision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Bk
K8
Rd
Og
Bk
Light
Connector
U2
Bk
Og
SW6
Og/Ye
Og/Ye
Bk
U6
U3
Bk
Og
G
I
S
SW8
Og
Og/Ye
Bk/Wh
Bk
R3
SW5
LBu
Og/Ye
U4
Bk
Og
G
I
S
SW3
Og
NO
NO
LBu
Gy
NC
NC
Ye
R2
Gn/Wh
Gn/Wh
SW11
Pu
L2
Og
SW7
CC
NCC
NOC
CB
NCB
NOB
Pk
L1
Og
Og
CA
NCA
Ye
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NOA
Gn/Bk
DBu
SW4
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START-B+I+GP+S
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S
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87
Og/Ye
Og/Ye
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85
Bk
DBu/Wh
Bk
K6
R1
Wh
U1
Og
Pk
I
B
L
Gn
Gn
CB1
Og
Og/Gn
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Bk
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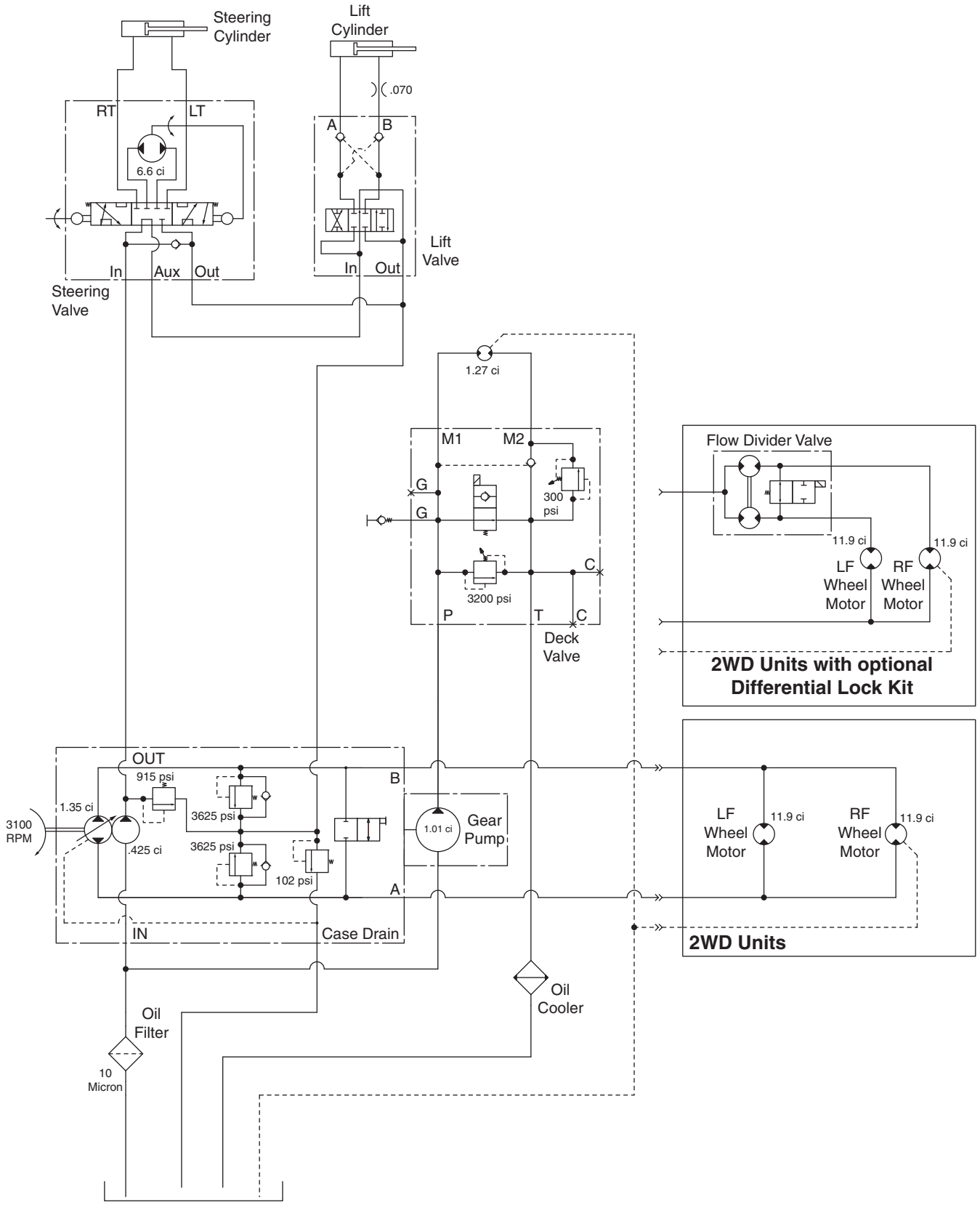
Bn/Wh
Rd
Bn
B
S
B1
Wh/Og
M1
Wh/Og
P
H
Gn
K7

Item	Reference Illustration	Part Number	Description	Serial Numbers/Notes
B1		N/S	Battery	Obtain Battery Locally
CB1	See 14.1	48524	40A Circuit Breaker	
F1	See 14.1	148082-20	20A Fuse	
K1	See 14.1	2722325	Interlock Relay	
K2	See 14.1	2722325	Seat Delay Module Relay	
K3	See 14.1	2722325	Fuel Relay	
K4	See 14.1	2722325	Starter Relay	
K5	See 14.1	2722325	PTO Disable Relay	
K6	See 45.1	4134530	Deck Valve Solenoid Coil	Part of Deck Valve 4135584
K7	Not Shown	2811021	Fuel Solenoid	Part of Engine
K8	Not Shown	148387	Flow Divider Solenoid	Optional 2WD Differential Lock
L1	See 6.1	178092-22	Alternator Light	
L2	See 6.1	178092-22	Engine Oil Pressure Light	
M1	Not Shown	557888	Starter Motor	Part of Engine
R1	Not Shown	4177227	Glow Plugs	Part of Engine
R2	See 17.1	148270	Temperature Sender	
R3	See 19.1	2208073	Fuel Sender	
SW1	See 6.1	2810269	Ignition Switch	Part of Engine
SW2	See 5.1	4139450	Seat Switch	
SW3	See 7.1	108208	Neutral Switch	
SW4	See 6.1	4174684	PTO Switch	
SW5	See 8.1	38382	Parking Brake Switch	
SW6	See 17.1	2722389	Temperature Switch	
SW7	Not Shown	554018	Engine Oil Pressure Switch	Part of Engine
SW8	See 6.1	148061	Horn Button	Optional Kit
SW9	Not Shown	2208099	Differential Lock Switch	Optional 2WD Differential Lock
SW10	See 3.1	38383	PTO Enable Switch	
SW11	See 8.1	38382	Parking Brake Interlock Switch	
U1	Not Shown	2810354	Alternator	Part of Engine
U2	See 14.1	48030N	Hour Meter	
U3	See 6.1	148032	Fuel Gauge	
U4	See 6.1	148269	Temperature Gauge	
U5	See 14.1	2188154	Seat Delay Module	
U6	See 14.1	886425	Horn	

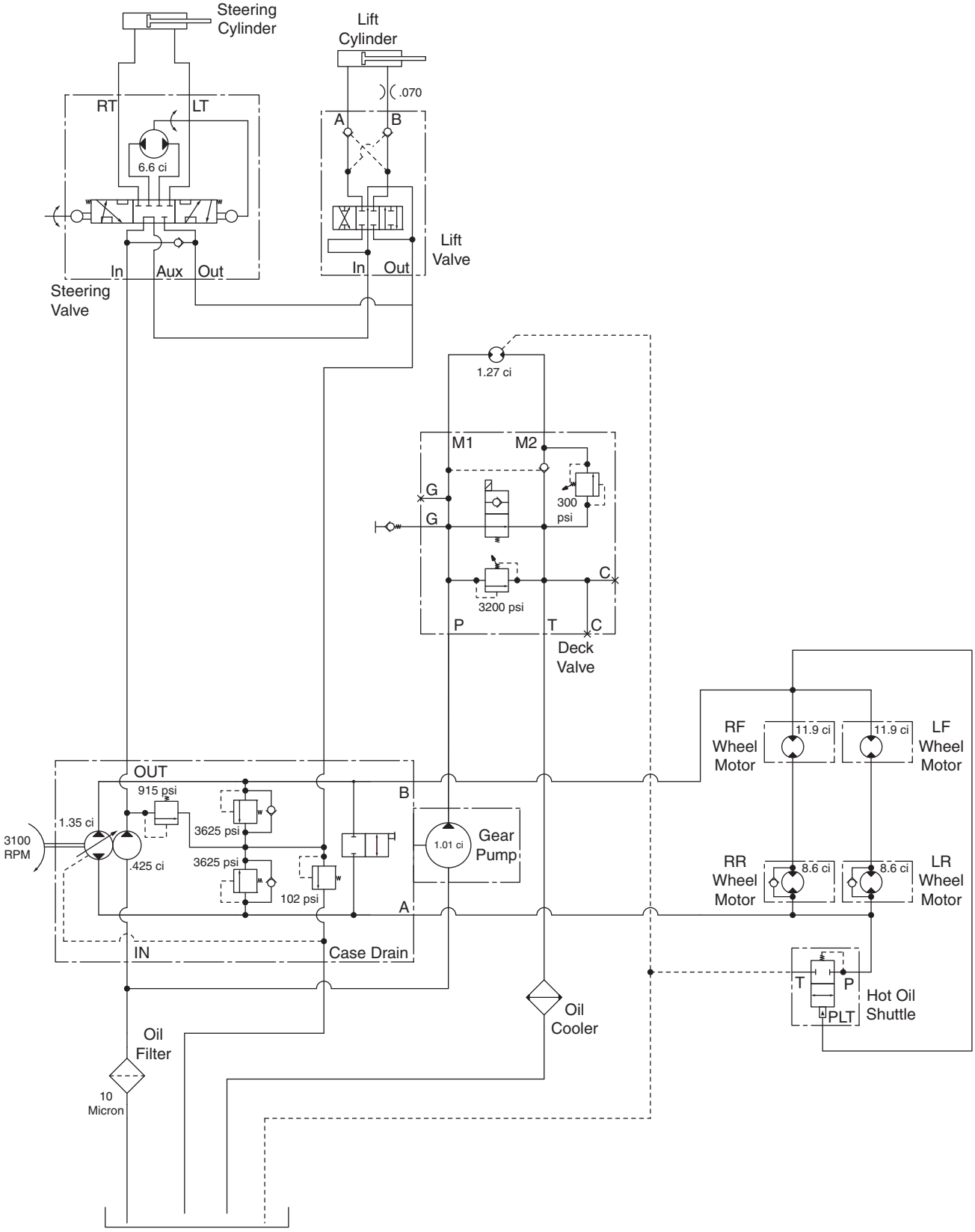
> Change from previous revision

48.1 2WD Hydraulic Schematic

Serial No. 69168 - All



49.1 4WD Hydraulic Schematic



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